Instruction Manual

Click one of the following tabs to jump to that section of the manual.

ImageBrowser EX

CameraWindow

- EOS camera users: Use EOS Utility instead of CameraWindow for these operations. Also refer to the *EOS Utility Instruction Manual*, provided in PDF format.
- Tab and button colors identify the current section—green for ImageBrowser EX and blue for CameraWindow.

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ImageBrowser EX
User Guide

CEL-SV5PA210



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Manual Conventions and Navigation, System Considerations

- Conventions in This Manual
- Manual Navigation
- Supported Operating Environments
- System Requirements

Conventions in This Manual

The following labels are used to distinguish sections in this manual:

Windows Indicates operations in Windows environments.

Mac OS Indicates operations in Mac OS environments.
Windows operations are used in some cases to illustrate instructions in this manual. On Macintosh keyboards, the equivalent of 'Ctrl' is 'command', and the equivalent of 'Enter' is 'return'. Instead of right-clicking, Macintosh users can hold 'command' and click. Screenshots in explanations are mainly from Windows. Some screen elements may be different in Mac OS environments.

Indicates operating precautions that should be followed, or important information to note. Be sure to read these sections.

Indicates operating tips and convenient ways to use the software. Read these sections as needed.

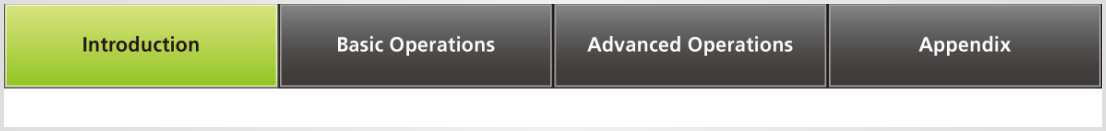
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Manual Navigation

- Click tabs or buttons to access other pages.

Tabs

Click a tab on the top of the page to access the first page in that section.



Buttons

Navigation is also possible by clicking the buttons on the bottom of the page.



1 Jump to the table of contents (9).

2 Return to the page shown before you clicked the link.

3 Jump to the previous page.

4 Jump to the next page.

- Click links to access other pages.
  Click links in the manual shown in blue, such as "XXXXX" or (XX), to access the page mentioned.

Supported Operating Environments

- Windows 7 and Mac OS X 10.8 screenshots and procedures are used to illustrate instructions in this manual. If you are using another version of operating system, the actual screens and procedures may be different.
- Screens and procedures may also vary depending on the model of camera/camcorder, and not all functions may be available, as noted in relevant sections of this manual.
- Use the software when online to take advantage of auto updating. Note that auto updating is not available when offline, which will prevent you from obtaining any new functions that are released.

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System Requirements

Windows

Operating System	Windows 8 / 8.1 Windows 7 SP1
Computer	Computer running one of the above operating systems (preinstalled); Internet connection required for auto updating
CPU (Still Images)	1.6 GHz or higher
CPU (Movies)	[HD models] Core 2 Duo 1.66 GHz or higher [Full HD models]*1 Camcorders: Core i5 3.0 GHz or higher Digital cameras: Core i7 2.8 GHz or higher
RAM (Still Images)	64-bit: 2 GB or more 32-bit: 1 GB or more
RAM (Movies)	2 GB or more
Free Hard Disk Space	ImageBrowser EX: 250 MB or more*2 PhotoStitch: 40 MB or more
Display	1,024 x 768 resolution or higher

*1 Recommended specifications for Full HD movie playback in ImageBrowser EX.
*2 Includes Silverlight 5.1 (max. 100 MB).

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Mac OS

Operating System	OS X 10.9*1, 10.8*1
Computer	Computer running one of the above operating systems (preinstalled); Internet connection required for auto updating
CPU (Still Images)	Core 2 Duo or higher
CPU (Movies)	[HD models] Core 2 Duo or higher [Full HD models]*2 Camcorders: Core i5 3.0 GHz or higher Digital cameras: Core i7 2.8 GHz or higher
RAM (Still Images)	2 GB or more
RAM (Movies)	2 GB or more
Free Hard Disk Space	ImageBrowser EX: 350 MB or more*3 PhotoStitch: 50 MB or more
Display	1,024 x 768 resolution or higher

*1 Information on computer models compatible with OS X 10.9 and 10.8 is available on the Apple website.
*2 Recommended specifications for Full HD movie playback in ImageBrowser EX.
*3 Includes Silverlight 5.1 (max. 100 MB).

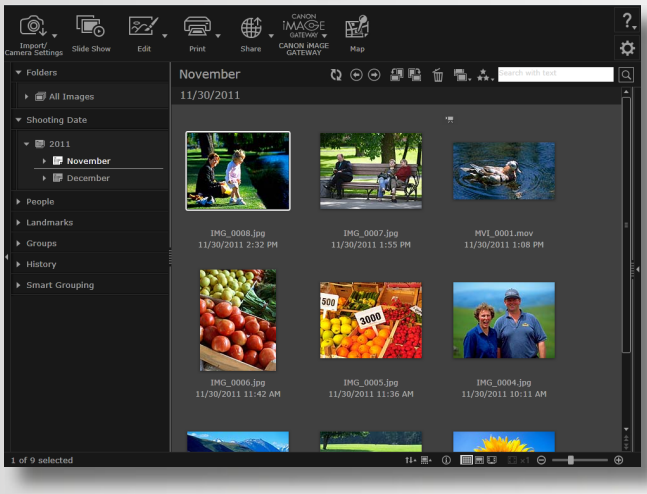
For the latest compatibility information, including supported OS versions, visit the Canon website.

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Software Described in This Instruction Manual

Using mainly the following two programs, you can import images and manage them on your computer.





●CameraWindow/EOS Utility

Used for basic image management, such as importing images from the camera/camcorder.

- Users of cameras/camcorders other than EOS cameras: Use CameraWindow for these operations. Also refer to the *CameraWindow User Guide* (provided in PDF format).
- EOS camera users: Use EOS Utility for these operations. However, versions of EOS Utility before 2.10 are not compatible with ImageBrowser EX. Also refer to the *EOS Utility Instruction Manual* (provided in PDF format).

●ImageBrowser EX

- Once you import images from your camera/camcorder and close CameraWindow or EOS Utility, the main ImageBrowser EX window is displayed.
- Use ImageBrowser EX to manage images imported to your computer. With ImageBrowser EX, you can browse, edit, and print images on your computer.

- **The display will be updated automatically if you use operating system utilities or other software to move, delete, or rename folders registered in ImageBrowser EX (or images in these folders) while ImageBrowser EX is in use. If the display is not updated automatically, click in the toolbar.**
- **To view which folders are registered in ImageBrowser EX, see "Configuring Preference Settings".**

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Starting ImageBrowser EX Alone

To browse, edit, and print images already imported to your computer, you can also start ImageBrowser EX as follows:

Windows



- Double-click the desktop icon.
- In the taskbar, click the 'Start' menu → 'All Programs' → 'Canon Utilities' → 'ImageBrowser EX' → 'ImageBrowser EX' icon.

Mac OS



- Click the 'ImageBrowser EX' Dock icon.
- Navigate to the 'Applications' folder → 'Canon Utilities' folder → 'ImageBrowser EX' folder and double-click the 'ImageBrowser EX' icon.

Accessing Help

Depending on the screen, a Help button (?) is displayed. Click for instructions or a description of screen elements.

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Importing Images

- Camera/Camcorder–Computer Connection Precautions
- Non-EOS Cameras: Importing Images with CameraWindow
- EOS Cameras Only: Importing Images with EOS Utility
- Importing Images from Memory Cards

Camera/Camcorder–Computer Connection Precautions

- When connecting the camera/camcorder to a computer via an interface cable, connect the interface cable directly to the USB port. Connection via a USB hub may prevent correct operation.
- Using other USB devices (except USB mouse devices or keyboards) when the camera/camcorder is connected may prevent correct operation. In this case, disconnect the other devices from the computer and reconnect the camera/camcorder.
- Do not connect multiple cameras or camcorders to a single computer. This may prevent correct camera/camcorder operation.
- Do not allow the computer to enter sleep (or standby) mode while a camera/camcorder is connected via an interface cable. If this does happen, leave the interface cable connected to the computer and try to wake the computer while the camera is still connected. Some computers may not recover from sleep correctly if the interface cable is disconnected while they are in sleep mode. For details on sleep or standby mode, refer to the computer user manual.
- Do not disconnect your camera/camcorder from the computer while the CameraWindow or EOS Utility screen is displayed.

- **When connecting a battery-powered camera/camcorder to the computer, make sure the device is fully charged, or use an AC adapter kit or a compact power adapter (may be sold separately, depending on your model).**
- **When connecting an AA battery-powered camera/camcorder to the computer, use batteries with sufficient charge, optional fully charged AA NiMH batteries, or an optional compact power adapter.**
- **For connection instructions, refer to the camera/camcorder user guide.**

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Non-EOS Cameras: Importing Images with CameraWindow

Connect your camera/camcorder to the computer and import images as follows:

- Instructions in this *ImageBrowser EX User Guide* apply when the program has been installed correctly. For installation instructions, refer to the camera/camcorder user guide.



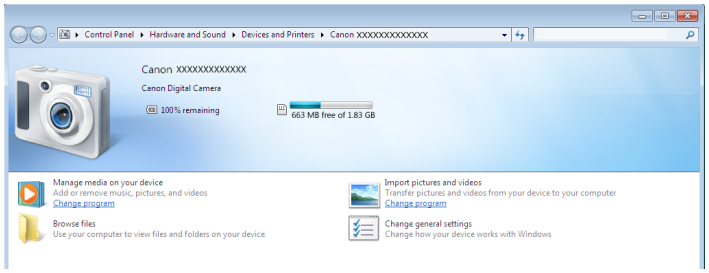
1 **Connect your camera/camcorder to the computer via the included interface cable.**

2 **Start CameraWindow.**

→ **Turn the camera/camcorder on and prepare it for communication with the computer.**

- After the first time you connect the camera/camcorder to the computer via the included interface cable, CameraWindow will start up automatically.

Camera



Windows Follow these steps.

1. In the taskbar, click .
2. When the screen on the left is displayed, click 'Change program' next to .
3. Select 'Downloads Images From Canon Camera using Canon CameraWindow', and then click 'OK'.
4. Double-click .

- On the screen on the left, double-click 'Change general settings' and adjust the settings as desired. From now on, whenever the camera/camcorder and computer are ready for communication, your selected program will start up automatically.

Windows 8

Select the screen for choosing what to do with the device, and then choose 'Downloads Images From Canon Camera using Canon CameraWindow'.

Windows Vista

On the screen displayed, select 'Downloads Images From Canon Camera using Canon CameraWindow'.

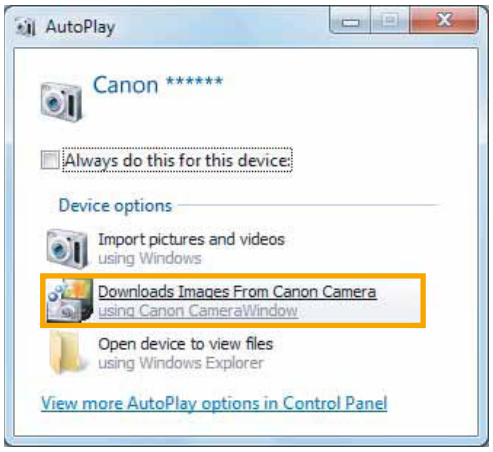
Windows XP

On the screen displayed, select 'Canon CameraWindow', and then click 'OK'.

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Mac OS Whenever the camera and computer are ready for communication, CameraWindow will start up.

Camcorder



Windows Select 'Canon CameraWindow' and click 'OK'.

Windows 8

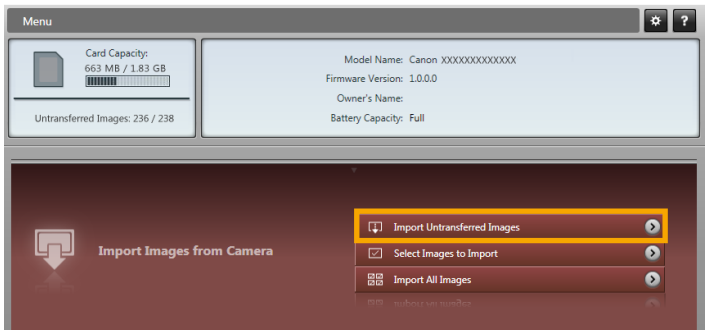
Select the screen for choosing what to do with the device, and then choose 'Downloads Images From Canon Camera using Canon CameraWindow'.

Windows XP/Windows Vista

When the 'AutoPlay' window appears, click 'Downloads Images From Canon Camera using Canon CameraWindow'.

- If a camcorder and memory card reader are connected at the same time, a dialog appears allowing you to select the camcorder model. Confirm that 'Canon Camera' or your camcorder model name is displayed and click 'OK'.

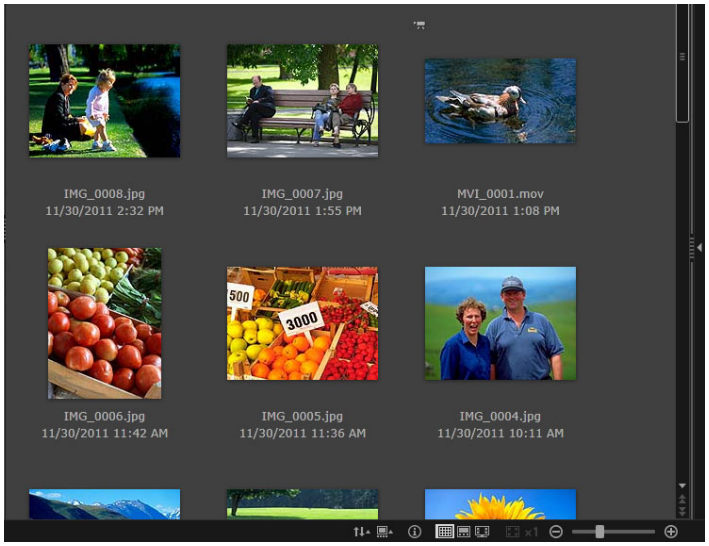
Mac OS Whenever the camcorder and computer are ready for communication, CameraWindow will start up.



3 Click [Import Images from Camera], and then click [Import Untransferred Images].

- Only images that you have not transferred to the computer will be imported.
- If you have used the GPS logger function, log files will also be imported.

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4 Click [OK] on the screen displayed after importing, and then close CameraWindow.

Imported images are now shown in the main ImageBrowser EX window.

- On initial ImageBrowser EX startup, a screen is displayed for specifying where to save imported images. Follow the instructions displayed to choose the destination folder .
- Importing problems may occur if there are too many images (more than 1,000) on the memory card. In this case, use a memory card reader to import the images. For instructions on importing images from a memory card reader, see "Importing Images from Memory Cards".
- Movies take longer to import, due to the larger file size.
- On camcorders, files that exceed 4 GB or movies that are longer than 1 hour are split and recorded as multiple files. When these files are detected and you close CameraWindow, a message is displayed. You can click [Yes] to join the files.

5 Turn the camera/camcorder off.

Although ImageBrowser EX can still be used while files are being joined, operation may be sluggish, and movie playback may not be smooth.

Windows

- **Importing movies using built-in Windows 7 import functions may prevent them from being shown in ImageBrowser EX. Instead, use CameraWindow for importing.**
- **CameraWindow may not start up in some versions of Windows, even when you connect your camera/camcorder. In this case, click the 'Start' menu and select 'All Programs' → 'Canon Utilities' → 'CameraWindow' → 'CameraWindow'.**

Mac OS

- **If CameraWindow does not start up even when you connect your camera, click the 'CameraWindow' Dock icon.**

Split movie files can also be joined by right-clicking their folder in ImageBrowser EX and choosing the menu command to combine them.

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EOS Cameras Only: Importing Images with EOS Utility

Connect your EOS camera to the computer and import images as follows:

- These instructions apply when EOS Utility has been installed correctly.
- For further details, refer to the *EOS Utility Instruction Manual* (provided in PDF format).

1 **Connect your camera to the computer via the included interface cable.**

2 **Turn the camera on and start EOS Utility.**

3 **Configure EOS Utility so that ImageBrowser EX starts up after image importing.**

1. On the EOS Utility menu screen, click [Preferences].
2. On the [Linked Software] tab, select [ImageBrowser EX] in [Software to link] and click [OK].

4 **Click [Starts to download images].**

Imported images are now shown in the main ImageBrowser EX window.

- On initial ImageBrowser EX startup, a screen is displayed for specifying where to save imported images. Follow the instructions displayed to choose the destination folder (📖 13).

5 **Click [Quit] to exit EOS Utility, and then turn the camera off.**

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Importing Images from Memory Cards

ImageBrowser EX is used to import images from memory cards. You can use this program with EOS cameras as well as other cameras/camcorders.



First, insert the memory card in the memory card reader.

Windows When a screen is displayed for selecting an action, choose 'View/ Download Images Using Canon ImageBrowser EX'. ImageBrowser EX now starts up, and the screen on the left is displayed.

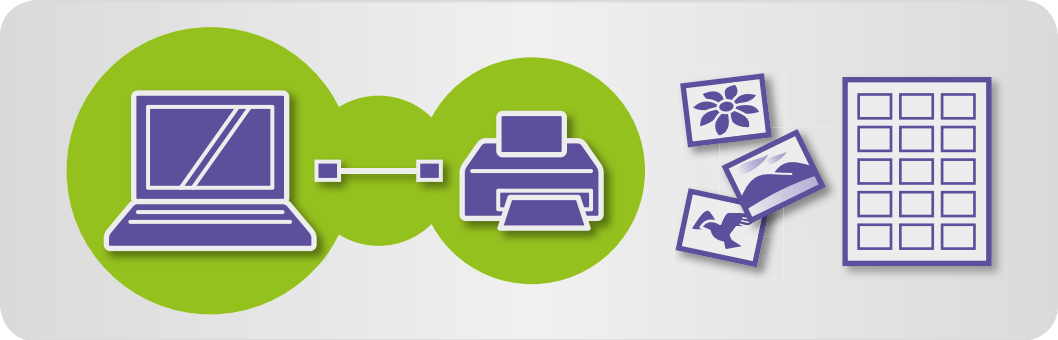
Mac OS When you insert a memory card in the memory card reader, ImageBrowser EX starts up and the window on the left is displayed.

Follow the instructions displayed to import images.

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Printing

- Printing Individual Images on a Sheet
- Printing Contact Sheets



Printing Individual Images on a Sheet

Print individual images on single sheets of paper as follows:

Printing Scenes in Movies

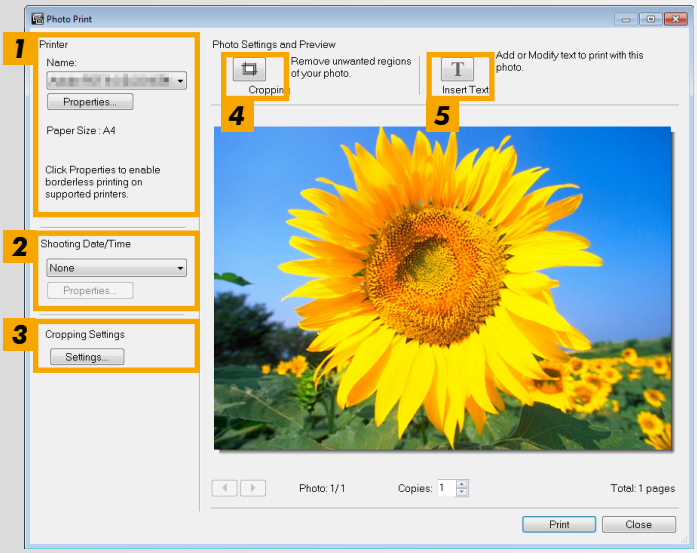
Although movies cannot be printed, you can extract, save, and print still images from movies. For instructions on extracting still images from movies, see "Extracting Multiple Images from Movie".



1 **Select an image to print, click [Print], and then select [Print Images].**

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2 Complete the print settings as desired.



1. Specify the printer, paper size, borderless printing options, and so on.
2. Select your preferred printing format for the shooting date/time.
3. Specify whether or not to maintain the aspect ratio of cropped images when you print them.
4. Crop images to avoid printing unwanted image areas.
5. Add text to images before printing.

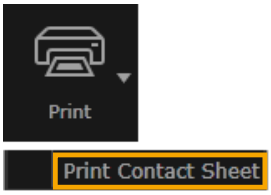
3 Click [Print].

The image is now printed.

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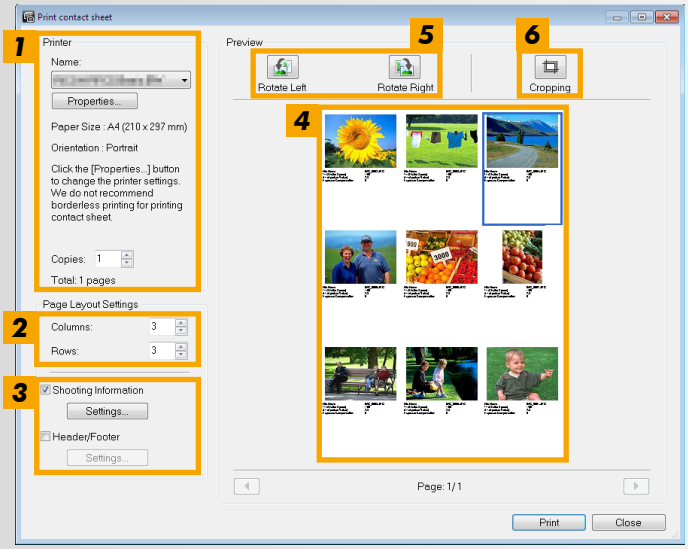
Printing Contact Sheets

Print rows of images as follows:



1 **Select images to print, click [Print], and then select [Print Contact Sheet].**

2 **Complete the print settings as desired.**



1 Specify the printer, paper size, and other options.

2 Specify the number of rows and columns.

3 Configure settings to print details such as shooting information, a header or footer, and page numbers.

4 Preview the images to print. Also, select images to rotate or crop.

5 Rotate selected images.

6 Crop selected images to avoid printing unwanted image areas.

3 **Click [Print].**

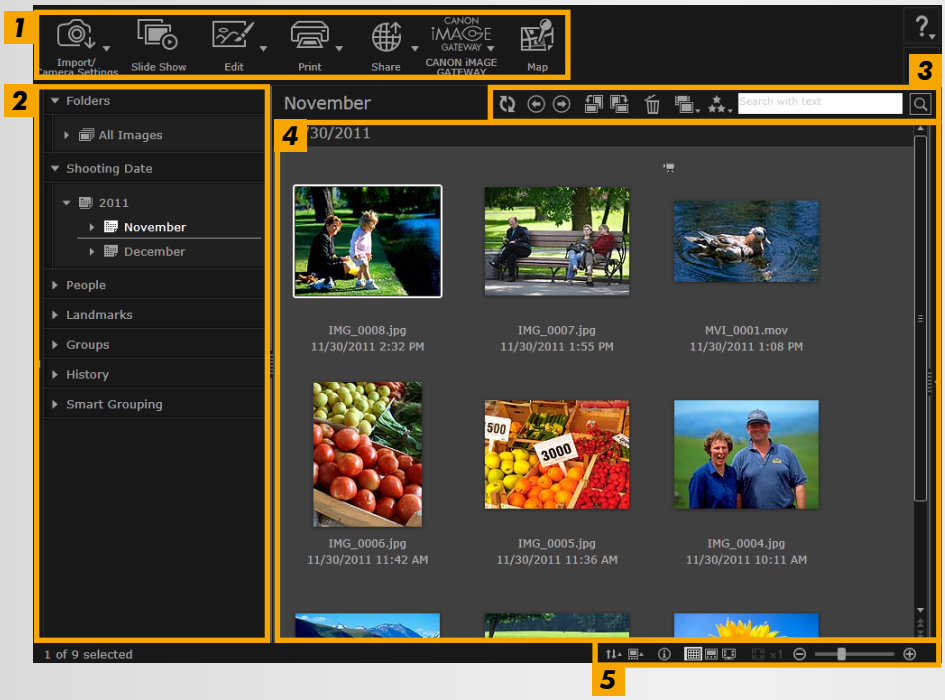
The image is now printed.

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Screen Elements

- Main Window
- Tree View
- Launcher Area
- Toolbar
- Browser Control Bar

Main Window



1 Launcher Area
Select tasks to perform.

2 Tree View
Select folders to view. For details, see "Tree View".

3 Toolbar
Rotate or delete images, or perform other tasks. For details, see "Toolbar".

4 Browser Area
Rows of images are shown in this area.
Icons near images indicate image properties. For details, see "Properties Icons" below.

5 Browser Control Bar
Settings governing display in the browser area. For details, see "Browser Control Bar".

- The buttons shown vary depending on camera/camcorder model.

Properties Icons

These icons are shown in the browser area, near images.

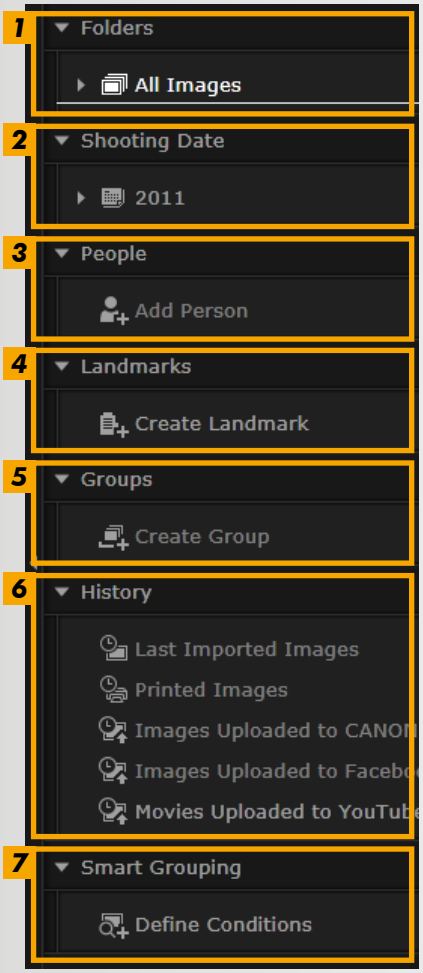
- Images shot in Stitch Assist mode
- RAW Image
  To view RAW images shot in aspect ratios other than 4:3, use Digital Photo Professional (39).
- Images shot in AEB mode
- Movies
- Geotagged images

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Tree View

Imported images are managed on the basis of folders. To view or browse images organized by folders, shooting date, or other criteria, click the relevant item (folder) listed in the tree view.

- By default, importing images using CameraWindow or EOS Utility will create new folders to store them, named with the shooting dates.



1 [Folders]
Shows destination folders where images are stored.

2 [Shooting Date]
Images organized by shooting date. Browse images by selecting a date (year/month/day).

3 [People]
People's names (as assigned to images or acquired from cameras supporting Face ID) are listed here. This area is useful when browsing shots of friends, family members, or other people. (Only available with cameras supporting Face ID.)

4 [Landmarks]
Folders named after landmarks. By adding landmark names here that represent shooting sites or areas, you can assign images to specific landmark folders to view them together.

5 [Groups]
Folders named after groups. By adding group names of your choice, you can assign images to specific group folders to view them together.

6 [History]
Shows images recently imported or printed.

7 [Smart Grouping]
Folders can be created according to your preferred conditions. Once you import images into ImageBrowser EX, the images are automatically sorted into relevant folders depending on which conditions they match. For details, see "Advanced Image Searching Conditions: Smart Grouping".

- The buttons shown vary depending on camera/camcorder model.

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Image Storage Location

By default, images imported using CameraWindow are stored in the following location in new folders created based on shooting date. Do not move, delete, or rename the folders registered in ImageBrowser EX (or images in these folders) with operating system utilities or other software while ImageBrowser EX is in use.

Windows

- Windows 8, Windows 7 or Vista: On the C drive in 'Users' → 'XXXXX' (user login name) → 'My Pictures' or 'Pictures'
- XP: On the C drive in 'Documents and Settings' → 'XXXXX' (user login name) → 'My Documents' → Stills: In 'My Pictures'; Movies: In 'My Videos' (may not exist in some environments)

Mac OS

On the startup disk (Macintosh HD, for example) in 'Users' → 'XXXXX' (user login name) → 'Pictures'

Launcher Area

Most tasks in ImageBrowser EX are done by clicking a launcher button in the main window and following instructions in the new window displayed.



1 **Click a desired launcher button.**

If a menu is displayed below the button, select a desired item. These items may vary depending on your model of camera/camcorder.

2 **Follow the instructions to complete the task.**

Launcher Buttons

[Import/Camera Settings]
Import images or return images to the memory card.

[Slide Show]
Start a slideshow of images.

[Edit]
Edit images.

[Print]
Print images.

[Share]
Attach images to email messages, or upload them to sharing websites.

[CANON iMAGE GATEWAY]
Use CANON iMAGE GATEWAY services.

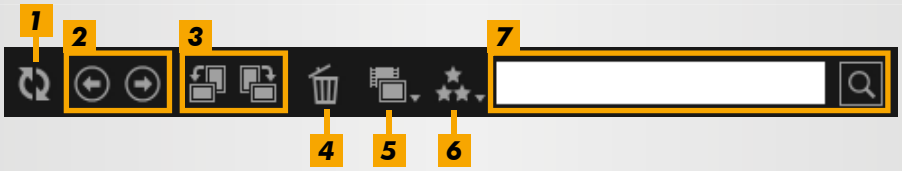
[Map]
View geotagged images on a map. (Geotagged shots only.)

- The buttons shown vary depending on camera/camcorder model.

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Toolbar

Rotate images and perform other tasks.



1 Update
Update the information shown in the tree view and browser area.

2 Back/Forward
View other folders as needed.

3 Rotate 90° Counterclockwise/Clockwise
Rotate selected images 90° left or right.
- To rotate original images to match the appearance of rotated images on the screen, right-click images and choose [Rotate According to Rotation Info].

4 Delete
Delete selected images.
Deleted images are moved to the 'Recycle Bin' or 'Trash' on the desktop.

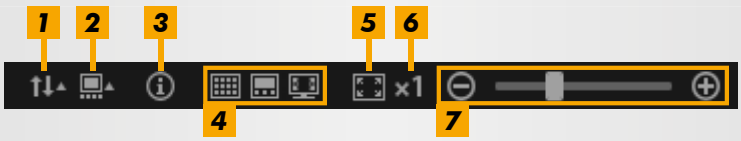
5 Filter by File Category
Show only images of the selected file type in the browser area.

6 Filter by Rating
Show only images of the selected rating in the browser area.

7 Search with Texts
Show only images with text descriptions that include the text you enter. Matching images are shown in the browser area.
- Images can be searched by file names, folder paths, people's names (for images from cameras supporting Face ID), and information added to images (landmark names, group names, tags, or comments).

Browser Control Bar

Settings governing display in the browser area.



1 Sort
Sort images according to the selected order.

2 Show Image Information
Show/hide the properties icon, file name, shooting date/time, and rating near images in Thumbnail mode.

3 Show Image Properties
Show the properties area, to the right of the browser area.

4 Switch Display Modes
Clicking this button will switch among display modes for the main window.
- Thumbnail Mode
- Preview Mode
- Full Screen

5 Fit to Screen
Resize images to fit the window. (Only available in Preview mode)

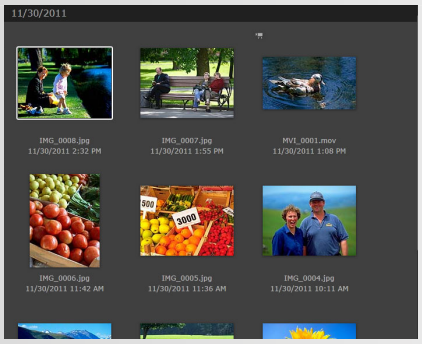
6 Original Image Size
Show images at the original size. (Only available in Preview mode)

7 Zoom In or Out
Zoom in or out (in Preview mode) or resize thumbnails (in Thumbnail mode).

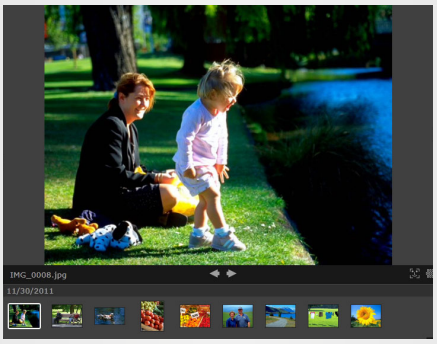
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Switching Display Modes

Switch the browser area to a convenient display mode as needed.



Thumbnail Mode:
Browse images by reviewing rows of thumbnails at a convenient size.



Preview Mode:
View the current image at a larger size while browsing thumbnails.



Full-screen:
Full-screen display of the current image.

Returning to the Original Display Mode from Full-Screen Display

To return to the previous display mode, press the 'Esc' key, click the current still image, or double-click the current movie.

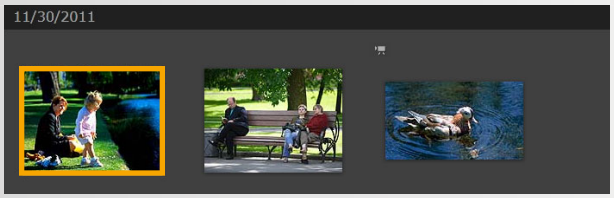
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Browser Area Tasks

You can do the following tasks in the browser area:

Select Images (Thumbnail Mode)

Click images to choose them.



- To select multiple images, hold down the 'Ctrl' key as you click each image.
- To select a range of adjacent images, click the first image and then hold down the 'Shift' key as you click the last image.

Convenient Shortcut Menus

Right-clicking a blank area of the screen or an image will display a shortcut menu. The menu presents supported and convenient functions in one place. Try using these menus for greater efficiency.

Using the Image Navigator

In Preview mode when you zoom in or out, a navigator window is shown to indicate the current position. You can change the image area shown by dragging in this navigator window or by clicking in the window.

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Properties Window: Image Details

To view image properties, select an image in the browser area and click ⓘ in the browser control bar.



1 Show/hide the information item.

2 **[Read-only]**
Prevent the image from being overwritten or deleted.

3 **[Shooting Info] Tab**
View a brightness histogram, the shutter speed, exposure compensation, and other shooting details.

4 **[Additional Info] Tab**
View additional image information.

5 **[Rating]**
Rate images, as needed.

6 **[Person]**
Identifies persons who have been assigned to the image. (Only available with cameras supporting Face ID.)

7 **[Landmark]**
View or enter the shooting site or area, as needed.

8 **[Groups]**
View or enter the image group name, as needed.

9 **[Tags]**
View or enter keywords used when filtering image display.

10 **[Comments]**
View or enter image comments.

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Viewing Slideshows

Slideshows display multiple images at full screen, one after another.



Click [Slide Show].

Images in the selected folder are displayed consecutively.

- You can select multiple images to limit the slideshow to those images.
- In slideshows that include movies, the next image will be shown after the movie is finished.

Slideshow Menu Bar

The following menu bar is shown during slideshows.

- The menu bar is hidden a little while after you stop moving the mouse.



1 **Previous Image**

2 **Play/Pause**

3 **Next Image**

4 **Settings**
Specify the display time for each image, and choose slideshow transitions.
- These settings do not apply to movies.

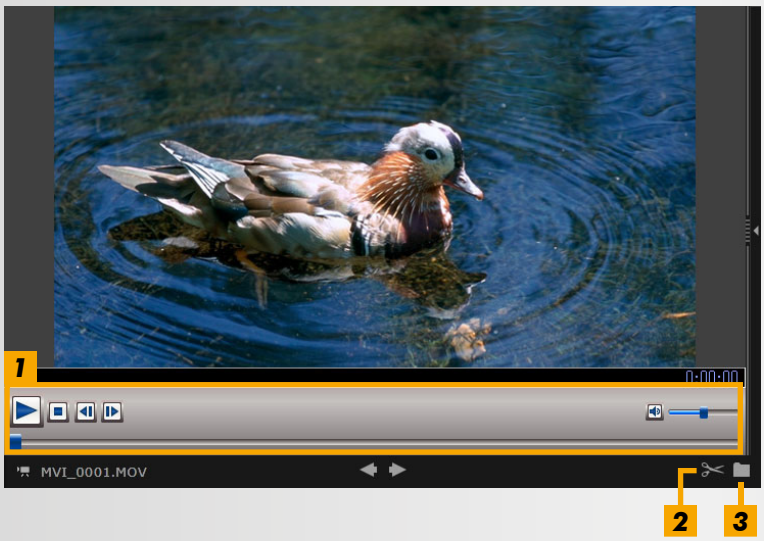
5 **Exit**

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Playing Movies

Movies can be played in Preview mode or at full screen (22).

Preview Mode



1 Play the movie, adjust volume.
When viewing super slow-motion movies, you can use a playback speed bar and real-time playback button (1x). Click the button to watch the movie at the speed at which it was actually recorded.

2 Trim unneeded scenes at the beginning or end.
You can also select and delete unneeded scenes in digest movies.

3 Extract still images from movies.

Returning to the Original View from Full-Screen Display

To return to Preview mode, press the 'Esc' key or double-click the movie.

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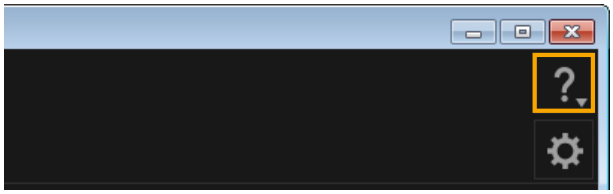
Updating the Software and Obtaining New Functions

➤ Manually Updating ImageBrowser EX

Keep ImageBrowser EX up to date and obtain any new functions that are released as follows. ImageBrowser EX will automatically check for updates or new functions when your computer is connected to the Internet. If a message is displayed regarding installation, follow the instructions to install the update.
Use ImageBrowser EX when online to take advantage of auto updating. This feature is not available when offline.

Manually Updating ImageBrowser EX

If you have several cameras/camcorders, use each device to update ImageBrowser EX, because features and information varies by camera/camcorder.



Click [?] and choose [Update to latest version].

- **Administrator rights are required in order to update ImageBrowser EX or obtain new features.**
- **Internet access is required in order to update ImageBrowser EX or obtain new features. (You must have an account with an Internet service provider, a browser must be installed, and an Internet connection must be established.)**
- **As with ordinary Internet access, ISP connection or access fees may apply.**
- **If you cannot use auto updating, visit the Canon website for information about ImageBrowser EX updates or new functions.**
- **If the user guide for your desired software is not updated automatically, download it from the Canon website.**

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Organizing Images

- Moving Images
- Tagging Images: Categories
- Changing the Image Sort Order
- Entering Identifying Information (Face ID-Compatible Cameras Only)
- Image Search
- Returning Images to Memory Cards



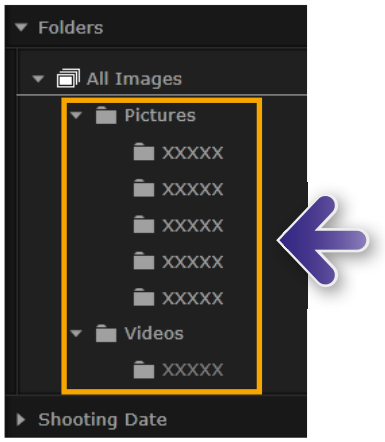
Moving Images

Move images to other folders as desired.

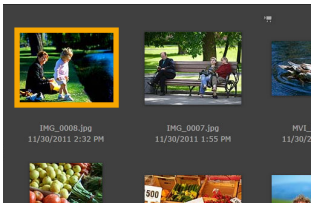


To move an image to another folder, drag the image to the destination folder under [All Images] and release the mouse button.

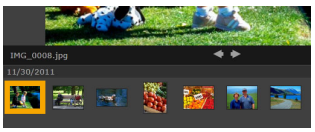
- Images will be copied instead of moved when the selected original images are in [Shooting Date], [People], [Landmarks], [Groups] or [History] and the destination folder is in [All Images]. (In this case, the original images are not moved.)



Thumbnail Mode



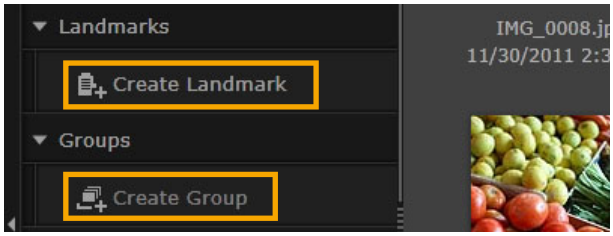
Preview Mode



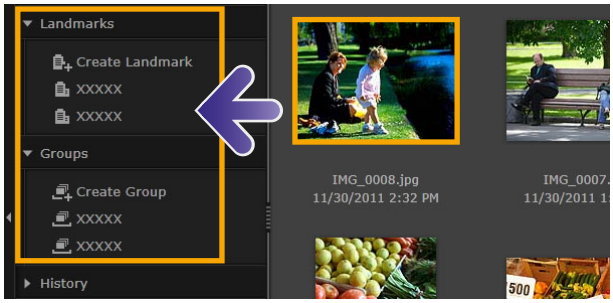
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Tagging Images: Categories

To organize images by landmarks or groups, first create the landmark or group folder, and then drag images to the folder to assign them to that category.
Note that the actual files of images registered to [Landmarks] or [Groups] folders are not moved from where they are stored on the computer. However, be careful when deleting images in [Landmarks] or [Groups] folders, because this will also delete the image file.



1 Select [Create Landmark] or [Create Group] and enter the name of the new folder.



2 Drag images to the folder to assign them to, and then release the mouse button.

The images are now tagged as belonging to the specified folder.
Clicking a folder will display the images assigned to that folder.

- Deleting a [Landmarks] or [Groups] folder will only delete the folder, not the images assigned to it.
- Images can be searched by categories, because the images you assign to categories are automatically tagged with that folder information.

You can also create groups by selecting images, accessing the properties window, clicking the [Additional Info] tab, and entering the names of landmarks or groups.

Changing the Image Sort Order

You can sort images in the browser area according to your selected criterion.



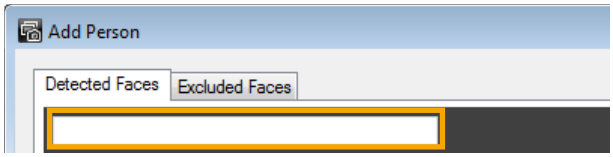
In the browser control bar, click , and in the menu, select the sorting criterion.

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Entering Identifying Information (Face ID-Compatible Cameras Only)

Faces in images are automatically detected when you import images into ImageBrowser EX, and the images are sorted into groups by person. Entering identifying information in ImageBrowser EX enables you to search for images by names.





1 **Under [People] in the tree view, click [Add Person].**

A screen for entering personal information is displayed.
Unwanted faces can be removed from groups by clicking the ✕ in the upper right of the face image.

2 **Enter the person's name.**

When finished, press the 'Enter' key.

3 **Choose an image to represent the person, enter a name to display on cameras supporting Face ID, and then click [OK].**

4 **Click [Close].**

The added person's name is now listed in the tree view.

Protecting Personal Information

- **Keep in mind that people's names will be added to the Exif data of images you use to add people to ImageBrowser EX. Similarly, people's names are also added to image Exif data when you confirm that faces were recognized correctly (📖 33). For this reason, be careful when sharing these images with others, or when posting the images online where many people can view them. You can also remove personal information before uploading images or movies to sharing websites from ImageBrowser EX (📖 51).**
- **To delete registered identifying information, right-click the person's name in the tree view and choose [Delete]. (This will also remove the person's name from image Exif information.)**

Editing Registered Identifying Information

To change images used for searching, registered people's names, or images used to represent people, right-click the person's name in the tree view.

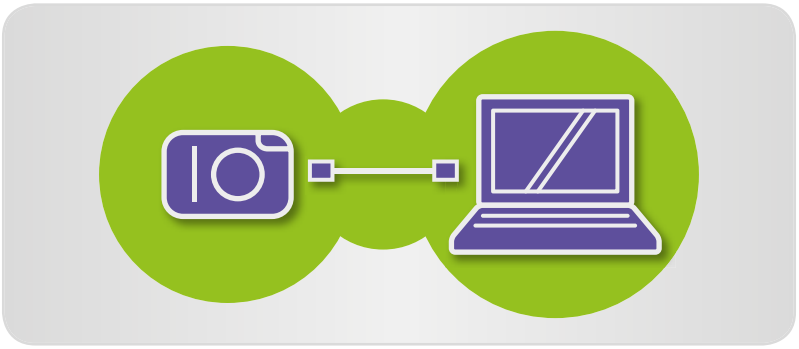
Processing to Search by Faces

Searching for images by faces may take some time if you have many images. This processing may continue even after you close ImageBrowser EX. You can see the processing status in the small window on the lower right of the screen. To stop the processing, click [Exit].
You can prevent this processing by clearing the option [Keep analyzing face info even after exit] on the [Face ID] tab in ImageBrowser EX preferences (📖 44).

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Syncing Identifying Information Between a Computer and Camera (Face ID-Compatible Cameras Only)

Information on your camera can be acquired to register people in ImageBrowser EX, when you use CameraWindow. Similarly, identifying information you enter in ImageBrowser EX can be applied to your camera. For details, refer to the *CameraWindow User Guide*.



A screen is displayed for you to configure automatic syncing of identifying information if you connect a camera when either the camera or your computer has identifying information. If you prefer not to see the sync screen each time CameraWindow starts up, clear the option [Synchronize automatically].

Image Search

Show only images matching your specified conditions in the browser area as follows:

Search with Texts

Images can be searched by file names, folder names, people's names (for images from cameras supporting Face ID), and information added to images (landmark names, group names, tags, or comments).



In the toolbar text box, enter texts that describe the images.

Search by File Type

Group the display by specific file types, as desired. Select types of still images or movie files.



In the toolbar, click and choose the file type.

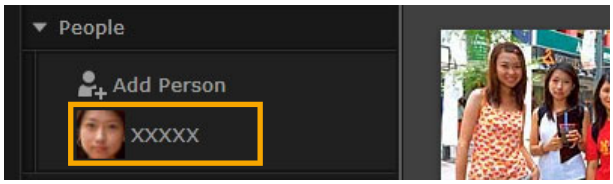
Search by Rating



In the toolbar, click and choose the rating (number of stars).

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Searching for Images by Faces: Thumbnail Mode (Face ID-Compatible Cameras Only)



Click a person's name in the tree view.

Images that may include the person are now shown in the browser area.

- Images labeled with ? in the lower right may not include the person. Move the cursor over the frame to view the message [Add this person?]. To add the person, click ☑ . Otherwise, click ☒ .

Searching for Images by Faces: Preview Mode (Face ID-Compatible Cameras Only)



1 Select an image with people and view it in Preview mode.

2 Click in the browser area.

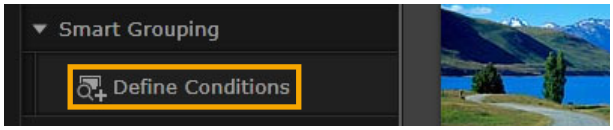
The person's name is now shown under their face.

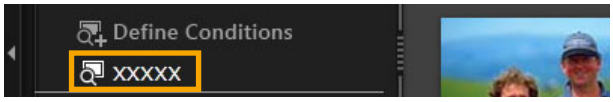
- Names labeled with [?] may not match the person. To add the person, move the cursor over the frame and click ☑ . Otherwise, click ☒ .
- If only [?] is shown in the name box, click the box and enter the person's name.

If image searching does not work as expected, try adjusting the bar for [The number of similar faces displayed when searched by person] on the [Face ID] tab in ImageBrowser EX preferences (📖 44). For example, if incorrect images are included in search results, slide the bar toward [Min], and if desired images are not found, slide it toward [Max].

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Advanced Image Searching Conditions: Smart Grouping





1 **In the tree view, click [Smart Grouping] → [Define Conditions].**

A screen for specifying conditions is displayed.

2 **Specify the filtering conditions.**

- You can specify the shooting date and additional image information as conditions.
- For details on additional image information, see "Tagging Images".

3 **Enter a name for the conditions and click [OK].**

A new folder is created, and images matching your specified conditions can be viewed in the folder.

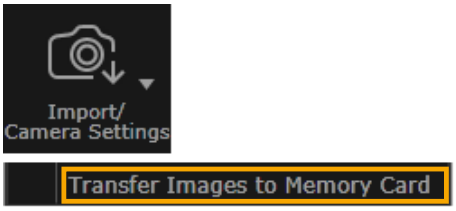
- Even images imported later that match the condition will appear in the folder automatically.

Be careful when deleting any images in [Smart Grouping] folders, because the original images will be deleted.

Returning Images to Memory Cards

Images imported to the computer can also be returned to your camera, using a memory card reader. The images you return can be viewed on the camera.

- EOS Utility cannot be used to return images directly to EOS cameras.



1 **Insert a memory card in the memory card reader that has been formatted on the camera.**

2 **In the main ImageBrowser EX window, select images to return to the camera.**

3 **Click [Import/Camera Settings] and choose [Transfer Images to Memory Card].**

- **Only images in JPEG, MOV, or MP4 format (except MP4 movies from camcorders) can be returned, and only to cameras that support these formats. For details, refer to the camera user guide.**
- **Only DCF-compliant images can be written to memory cards.**
- **It may not be possible to return images after image editing or information modification on a computer.**

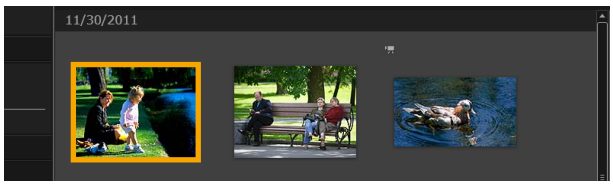
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Editing Still Images

- **Editing JPEG Images**
  - Correcting Red-Eye
  - Adjusting Images Automatically
  - Adjusting Color and Brightness
  - Emphasizing Outlines in Images to Increase Sharpness
  - Cropping Images
  - Adding Text to Images
  - Using PhotoStitch to Create a Panoramic Image
- **Editing RAW Images**
  - Processing RAW Images with Digital Photo Professional



First Steps for All Editing Tasks



1 **In the browser area, select the image to edit.**



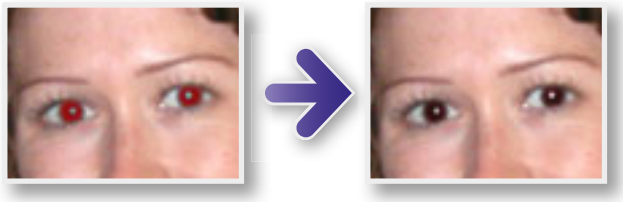
2 **Click the [Edit] launcher button, and in the menu, choose an editing option.**

3 **Follow the instructions displayed to complete the task.**

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Correcting Red-Eye

Restore natural eye color if eyes appear red from the flash firing.



[Edit] → [Correct Red-eye]

Adjusting Images Automatically

Automatically adjusts image color tone and brightness.



[Edit] → [Auto Correct]

Adjusting Color and Brightness

Adjust image color tone and brightness using a variety of methods.



Windows

[Edit] → [Adjust Color and Brightness]

- On the screen displayed next, you can also adjust images using a histogram and tone curves.

Mac OS

[Edit] → [Adjust Color and Brightness]

[Edit] → [Correct Levels]

[Edit] → [Correct Tone Curves]

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Emphasizing Outlines in Images to Increase Sharpness

Make images appear sharper by emphasizing the outlines of people and other subjects.



[Edit] → [Increase Sharpness]

Windows The Unsharp Mask [Radius] is the size at which outlines are detected, and the [Threshold] is a reference value used to determine outlines.

Cropping Images

Crop images to remove unwanted outer portions and leave the desired area.



[Edit] → [Crop Image]

- You can also specify the area to crop by entering numeric values or specifying an aspect ratio.

Adding Text to Images

Add text to images as follows:



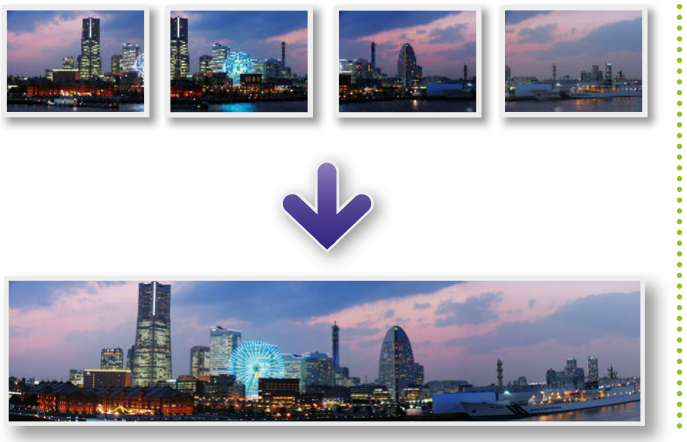
[Edit] → [Insert Text]

- For smoother text edges, select the [Antialias] check box. Text will blend into the background better.

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Using PhotoStitch to Create a Panoramic Image

Create wide panoramic images from a series of shots taken while moving the camera slightly before each shot.



[Edit] → [Stitch Photos]

If a message is displayed regarding insufficient memory, try the following:

- **Close all programs other than PhotoStitch.**
- **Use fewer images. Reduce the file size of the images.**
- **On the [Save] tab, select [Adjust image] and specify a smaller size in [Saved Image Size].**

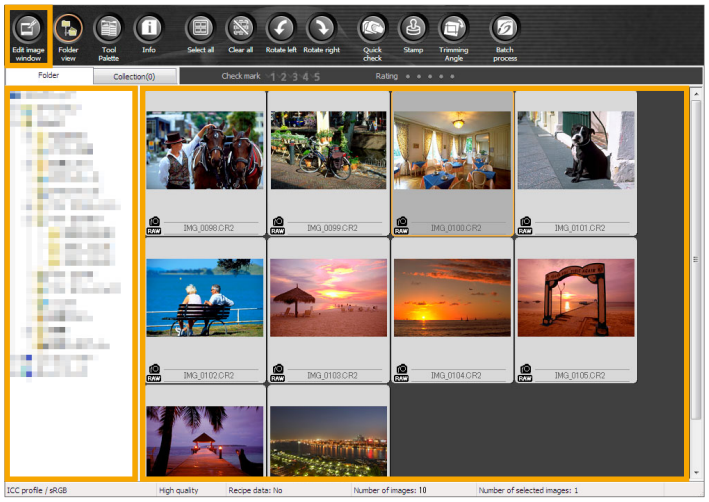
Using PhotoStitch with Stitch Assist

For images captured in Stitch Assist shooting mode, PhotoStitch can automatically detect the image order and merge direction, making it easier to merge the images. (Some models of camera/camcorder may not offer Stitch Assist mode.)

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Processing RAW Images with Digital Photo Professional

RAW images can be converted to JPEG or TIFF format.



1 **In ImageBrowser EX, click [Edit] and choose [Process RAW Images].**

Digital Photo Professional now starts up.

- You can also start the program by clicking the 'Start' menu, selecting 'All Programs' or 'Programs', and then selecting 'Canon Utilities' → 'Digital Photo Professional XXX' (with XXX indicating the version number) → 'Digital Photo Professional'.

2 **Select the folder where the images are saved.**

3 **Select an image.**

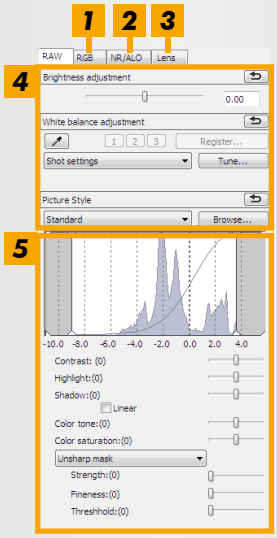
4 **Click [Edit image window].**

The tool palette is displayed.

5 **Using the tool palette, adjust image brightness and white balance as needed.**

- Modification details (information on image processing conditions) are saved as a "recipe" with the image.
- In Digital Photo Professional, optimal image adjustment for the scene or subject is possible by specifying a Picture Style.
- Image attributes that can be modified vary depending on your model of camera.

Tool Palette in Digital Photo Professional



1 Tone curves can be used to adjust all RGB channels at once or each channel individually.

2 Reduce noise in evening shots or at high ISO speeds.

3 Correct lens aberration in images shot with EOS cameras.

4 Adjust image brightness, white balance, or the Picture Style.

5 Adjust contrast, color tone, saturation, and other attributes.

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Printing

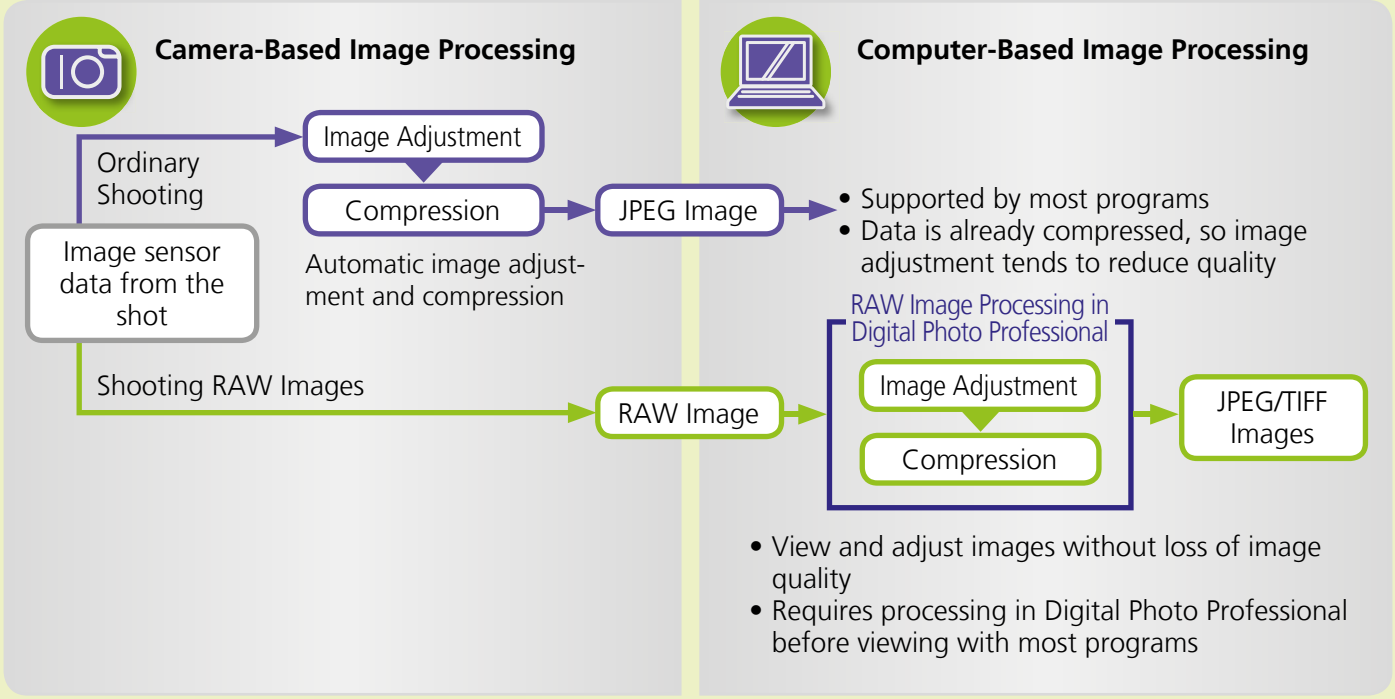
To print from Digital Photo Professional, select images in the main window and then select the desired print function in the [File] menu. The following printing options are available:

Printing Option	Description
Print	Images are automatically arranged for printing one image per sheet.
Print with detailed setting	Arrange images as desired for printing one image per sheet. Add titles, shooting information, and so on, if you prefer.
Print contact sheets	Print rows of images on a single sheet. (You can also specify the layout and number of images, add text, and more.)

- **Shooting RAW images is only possible on cameras that support RAW format. For details, refer to the camera user guide.**
- **Only RAW images supported by Digital Photo Professional can be processed by the program. Be sure to refer to the camera user guide.**
- **A more detailed description of operations is available in the *Digital Photo Professional Instruction Manual*, which EOS camera users can view from the included CD-ROM and other users can download from the Canon website.**

RAW Images Defined

RAW image files contain the unmodified data captured by the camera image sensor. Unlike ordinary JPEG images, the data is essentially "raw" (unadjusted and uncompressed), which enables image processing (conversion) on a computer with no loss of image quality.



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Tagging Images

- Rating Images
- Tagging Images: Keywords
- Tagging Images: Landmarks and Groups
- Tagging Images: Comments



In the properties window (📖 25), specify image details as desired.

Types of Image Details

The following additional information is used to organize, display, and label images.

Information	Details	How to Add	Used in Searching Images	Shown Below Thumbnails
Rating	Rate favorite images by adding stars (☆)	• ImageBrowser EX • Digital Photo Professional • Camera/camcorder (Favorites setting) • Windows 8/Windows 7/ Windows Vista (Rating)	○	○
Landmark	Classify images by identifying landmarks (places or buildings where shot)	ImageBrowser EX	○	×
Group	Classify images by adding a group name		○	×
Tag	Choose the subject or event from an editable list		○	×
Comments	Annotate images as desired; describe shooting conditions, your memories, and so on		○	×

- Tags shown below thumbnails can be selected by clicking in the browser control bar.

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Rating Images

Six image rating options are available: 1–5 stars (☆, ☆☆, ☆☆☆, ☆☆☆☆, ☆☆☆☆☆), No rating.
By using ratings, you can restrict image display to only your favorite images (22).



1 **Access the properties window and click [Additional Info].**

2 **In [Rating], click ● or ★ to rate the image.**

- You can also rate images as follows:
  - Right-click images and assign a rating from the shortcut menu.
  - On your camera/camcorder, use the "Favorite" setting.
  - Digital Photo Professional 3.9 or later

Rating images on a camera/camcorder is only possible on models that support this feature. For details, refer to the camera/camcorder user guide.

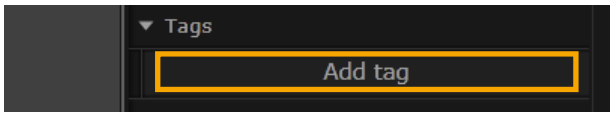
Tagging Images: Landmarks and Groups

Assign images to landmarks or groups just as you assign them to categories (described in "Tagging Images: Categories").

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Tagging Images: Keywords

Specify keywords as follows. You can search for images by the words you enter as keywords (32).



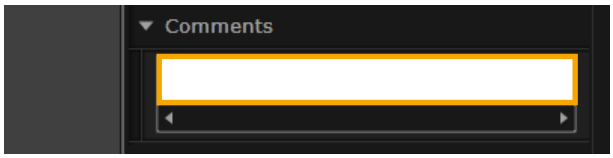
1 **Access the properties window and click [Additional Info].**

2 **Click [Add tag] and enter the keyword.**

- You can tag images by right-clicking images and choosing the tag in the menu.

Tagging Images: Comments

Enter any [Comments] in image as follows. You can search for images by the comments you enter (32).



1 **Access the properties window and click [Additional Info].**

2 **Enter text in the [Comments] field.**

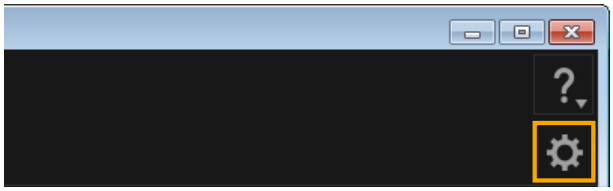
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Preference Settings

➤ Configuring Preference Settings



Configuring Preference Settings



1 **Click** ⚙ **.**

2 **Configure settings as desired on the preferences screen.**

- With some models of camera/camcorder, customization may require you to add another destination folder. In this case, access ImageBrowser EX preferences to add a folder.

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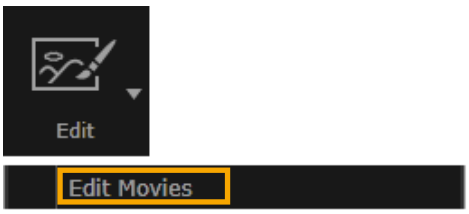
Editing Movies

- Editing Movies
- Extracting Multiple Images from Movie
- Editing EOS Video Snapshot (EOS Cameras Only)



Editing Movies

Trim movies, combine movies and still images to create an original movie, or edit movies in other ways as follows.
You can also add titles or other text, background music, and a variety of special effects.



1 **Select a movie.**

2 **Click [Edit] and choose [Edit Movies].**

3 **Follow the instructions to complete the task.**

- **Movies you edit this way cannot be returned to the camera.**
- **Playback of some scenes may not be smooth if you change the frame rate after movie editing.**
- **Saving movies may take some time. In particular, saving movies in MOV format may take a long time. Note that the time required may vary greatly depending on computer performance and movie size (resolution).**

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Supported Movie Length

Maximum supported lengths of movies you can save are shown on the right. A message will be displayed if you attempt to save a movie longer than this. In this case, trim the movie or reduce the size (resolution).

- Movies shot with EOS cameras that you edit this way are converted to the movie compression format specified by ImageBrowser EX before saving. For this reason, the movies may be in a different movie compression format than specified by the camera.

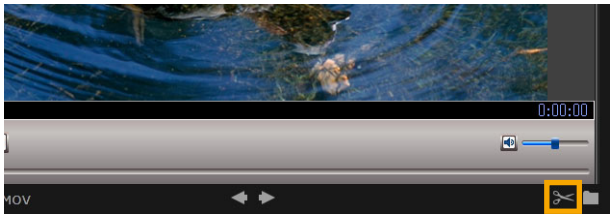
Size (Resolution)	Max. Length (MOV)	
	23.976 fps/ 25 fps/29.97 fps*	50 fps/59.94 fps*
1920×1080	Less than 10 min.	—
1280×720	Less than 20 min.	Less than 10 min.
640×480	Less than 30 min.	Less than 20 min.
320×240	Less than 60 min.	—

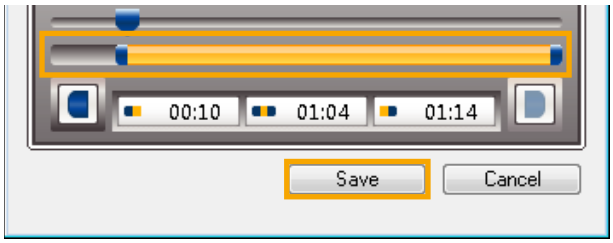
* On cameras, 23.976 fps is indicated as 24 fps, 29.97 fps as 30 fps, and 59.94 fps as 60 fps.

Size (Resolution)	Max. Length (MP4)
1280×720	Less than 30 min.

Trimming Movies

Trim unneeded portions at the beginning or end as follows:





1 **Select a movie in Preview mode.**

2 **Click**  **.**

3 **To specify portions to trim, drag each end of the bar shown on the left. The left point indicates where the movie begins, and the right point, where it ends.**

4 **Click [Save].**

- You can also select and delete unneeded scenes in digest movies.

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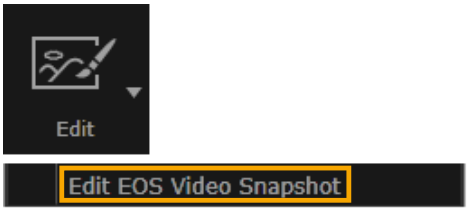
Extracting Multiple Images from Movie

Favorite scenes in movies can be saved separately as still images.



1. **Select a movie.**
2. **Click [Edit] and choose [Extract Multiple Images from Movie].**
3. **Follow the instructions to complete the task.**

Editing EOS Video Snapshot (EOS Cameras Only)



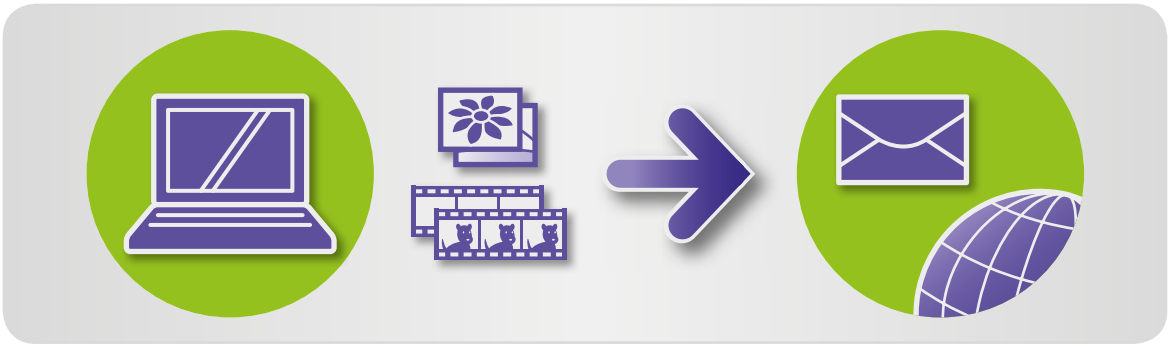
1. **Select a video snapshot album.**
   To confirm that the file is a video snapshot, access the properties.
2. **[Edit] → [Edit EOS Video Snapshot]**
   EOS Video Snapshot Task starts up.

- The *EOS Video Snapshot Task Instruction Manual* (in PDF format) can also be accessed from the EOS Video Snapshot Task Help.

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Using Online Services, Emailing Images

- Available Services
- Using Extended ImageBrowser EX Functions



Available Services

A variety of online services can be used with ImageBrowser EX. Availability of CANON iMAGE GATEWAY services varies by area.

CANON iMAGE GATEWAY

The CANON iMAGE GATEWAY website offers online photo services to Canon camera/camcorder customers. After member registration (free of charge), you can share your shots in online photo albums and take advantage of many other services.
Visit the CANON iMAGE GATEWAY website (http://canon.com/cig) for the latest information on where the services are available around the world. Also check your regional CANON iMAGE GATEWAY website to see which services are offered in your area.

- CANON iMAGE GATEWAY Member Registration (Free)



1. **Click [CANON iMAGE GATEWAY] and choose [Register].**
2. **Follow the instructions to complete the task.**

Registering from the CD-ROM

Member registration is also possible using the included CD-ROM. In this case, click [Register] on the CANON iMAGE GATEWAY installer panel.

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- Using CANON iMAGE GATEWAY



Click [CANON iMAGE GATEWAY] and choose the desired option.

Using Extended ImageBrowser EX Functions

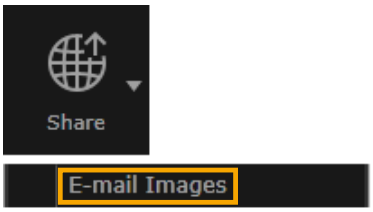
- Attaching Images to Email Messages
  Your shots can be shared as email attachments.
- Uploading Movies to YouTube
  Your movies can be uploaded to YouTube. (Requires YouTube registration in advance. For details, visit the YouTube website.)
- Uploading Images to Facebook
  Your shots can be uploaded to Facebook. (Requires Facebook registration in advance. For details, visit the Facebook website.)

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Using Extended ImageBrowser EX Functions

Attaching Images to Email Messages

Images can be sent as email attachments.



1 **Select an image.**

2 **Click [Share], choose [E-mail Images], and specify the size and other settings as desired.**

Windows

3 **Click [Attach to Email].**

The default email program now starts up, showing the screen for composing your message. Images you selected are shown as attachments.

- Images will be saved in your designated destination folder if you have selected [Save to Folder] under [After Finishing the Task] in [Custom Settings].
- If the email program does not start up automatically, save the images to your computer before starting the program manually, and then attach and send the images. Specify where images are saved in [Custom Settings], as needed.

Mac OS

3 **Click [Finish].**

The default email program now starts up, showing the screen for composing your message.

- Images are saved on the startup disk in 'Users' → 'XXXXX' (user login name) → 'Library' → 'Preferences' → 'SendEmailUserData', in the 'Email Images' folder.
- If the email program does not start up automatically, start it manually from the 'Applications' folder.

4 **Attach the saved images to email messages.**

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Windows

In order for your email program to start up automatically, the program must be configured as the MAPI client used on your computer.

Configuring the Email Program for Automatic Startup

Windows

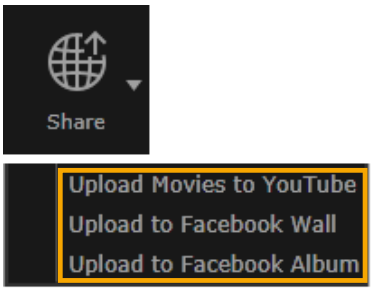
- Windows 8, Windows 7: An email program must be installed in advance. To change the default email program, click the 'Start' menu and select 'Default Programs'.
- Windows Vista: Configure the settings in your regular email program. For example, to configure Windows Mail, start Windows Mail, and in the 'Tools' menu, select 'Options' → 'Default Messaging Programs' → 'This application is not the default Mail handler' → 'Make Default'.
- Windows XP: Start Internet Explorer, and in the 'Tools' menu, select 'Internet Options'. On the 'Programs' tab, specify the program next to 'E-mail'.

Mac OS

In the 'Applications' folder, double-click the 'Mail' icon to start Mail. In the 'Mail' menu, select 'Preferences', and then specify the program on the 'General' tab.

Uploading Images or Movies to Sharing Websites

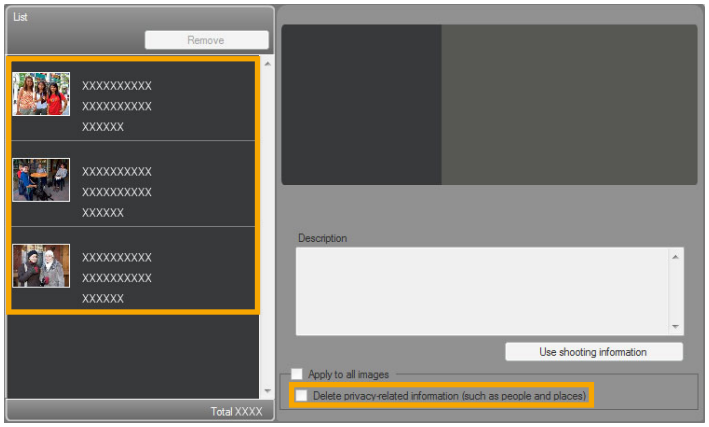
Upload your images or movies to sharing websites as follows. Use images or movies already saved to your computer, or directly upload images or movies still on the camera.



1 Select an image or movie.

- Only movies can be selected for YouTube, and only images for Facebook albums.

2 Click [Share], and then select a sharing website.



The screen on the left is displayed.

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3 **Remove personal information before uploading, if desired.**

- To remove personal information from selected images or movies, after selecting an image or movie in the [List] area shown on the left, select [Delete privacy-related information (such as people and places)].
- To remove personal information from all images or movies in the [List] area, select [Apply to all images] or [Apply to all movies].

4 **Enter a description, and then click [Upload].**

5 **Enter your user name and password for the sharing website, and then click [Log in].**

- **Indefinite support for uploading cannot be guaranteed, in consideration of website specifications and updates.**
- **It may not be possible to upload images or movies that have been edited on a computer.**
- **Uploading requires Internet access. You must have an account with an Internet service provider, a browser must be installed, and an Internet connection must be established.**
- **As with ordinary Internet access, ISP connection or access fees may apply.**
- **The maximum length for movies you can upload to YouTube is less than 15 minutes, and the maximum file size is less than 2 GB.**

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GPS

➤ Viewing Geotagged Images on a Map: Map Utility

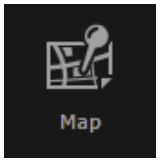


Viewing Geotagged Images on a Map: Map Utility

Using geotagged images and GPS logs, you can easily see on a map where shots were taken and view the route traveled with the camera.
It is also easy to add or delete location information.

This program uses Google Maps™ to display image locations and routes traveled on a map. Location information in images and GPS logs is sent to service providers.

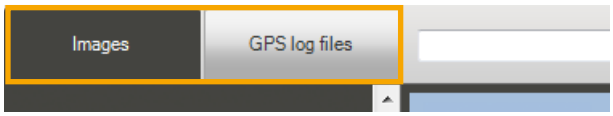
- **Uploading requires Internet access. You must have an account with an Internet service provider, a browser must be installed, and an Internet connection must be established.**
- **As with ordinary Internet access, ISP connection or access fees may apply.**
- **Google, Google Maps, and Google Earth are trademarks of Google Inc.**
- **Geotagged shots and GPS logs may contain personally identifiable information. Be careful when sharing the files or posting images online where many people can view them.**
- **Do not use Map Utility with images you are currently editing in Digital Photo Professional. This may prevent your changes from being saved correctly.**



1 **Select an image.**

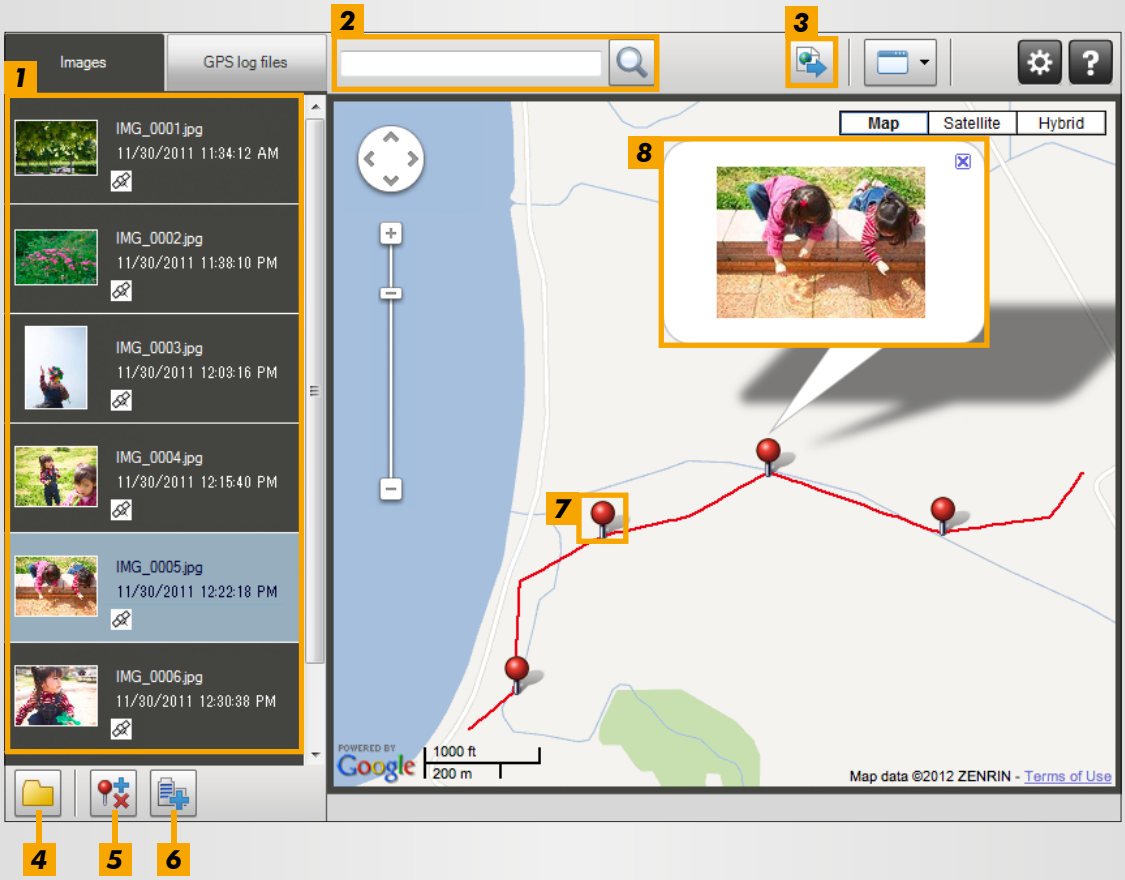
2 **Click [Map].**
Map Utility now starts up.

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3 **Select a display mode.**

Viewing or editing routes



1 Lists the images selected in ImageBrowser EX.

2 Enter a location to find corresponding images.

3 Click to export location files that can be viewed in Google Earth. (Use of these files requires Google Earth to be installed. Note that display may be incorrect in some versions of Google Earth.)

4 Add images.

5 Add or remove image location information.

6 Label images in the current map area with landmark names.

7 Shooting locations are indicated by pins on the map.

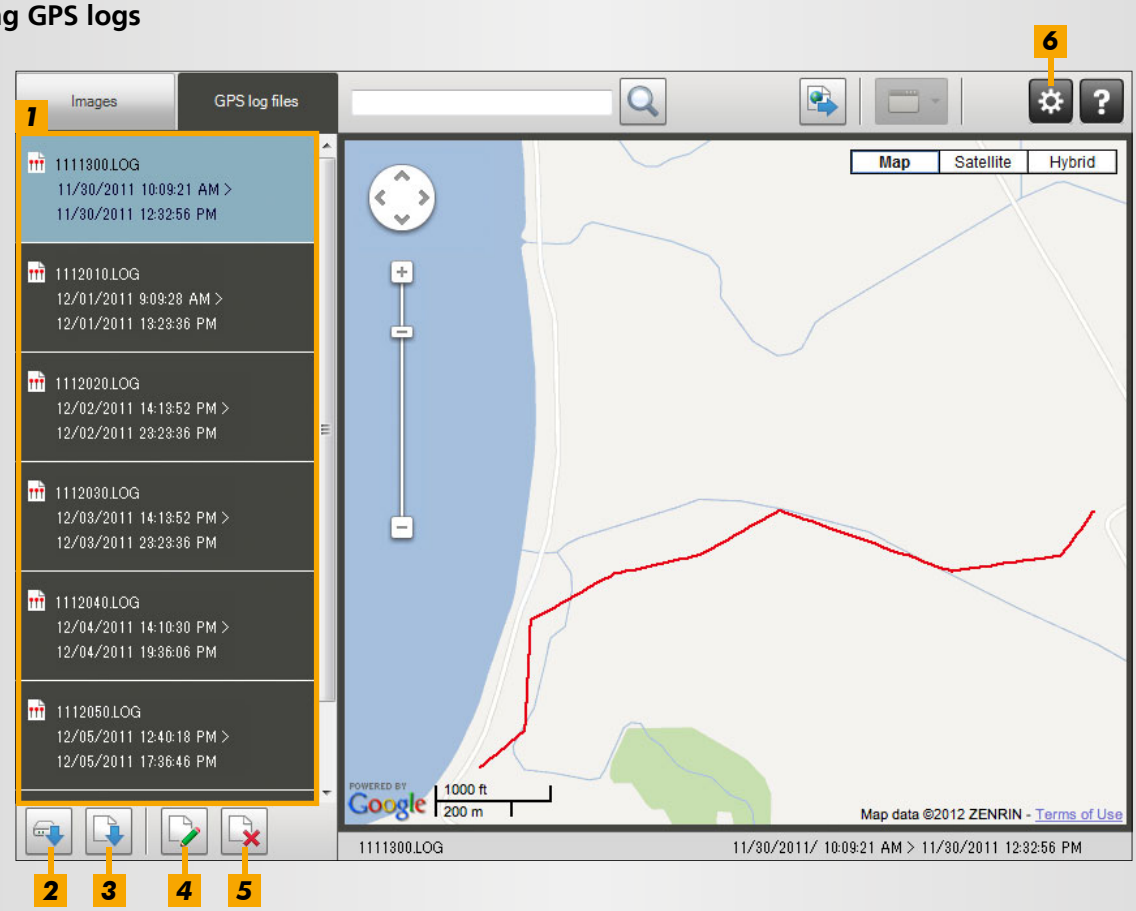
8 The current image is shown in a pop-up window.

- The buttons shown vary depending on camera/camcorder model.

This Map Utility feature works with images geotagged by cameras with GPS functionality or cameras that can use smartphone GPS data.

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Managing GPS logs



1 Lists GPS log files.

2 Import GPS log files from a camera or memory card.

3 Add a GPS log file.

4 Change GPS log time difference information.

5 Remove a GPS log file from the list.

6 Click to filter log information display. Adjust display conditions as needed for a better view of the route on the map.

- The buttons shown vary depending on camera/camcorder model.

This Map Utility feature works with GPS logs recorded by cameras that support logging.

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Index

Importing/Returning Images

"Import images from cameras/camcorders"
"Import images from EOS cameras"
"Import images from memory card readers"
"Return favorite images to the camera"

Browsing Images

"View images at full screen"
"View movies"
"Check image details"
"View slideshows"
"Search images by faces"

Organizing Images

"Organize images into folders"
"Organize images into categories"
"Search images by various conditions"
"Sort image display"

Editing Images

"Edit still images"
"Convert RAW images"
"Edit movies"

Printing

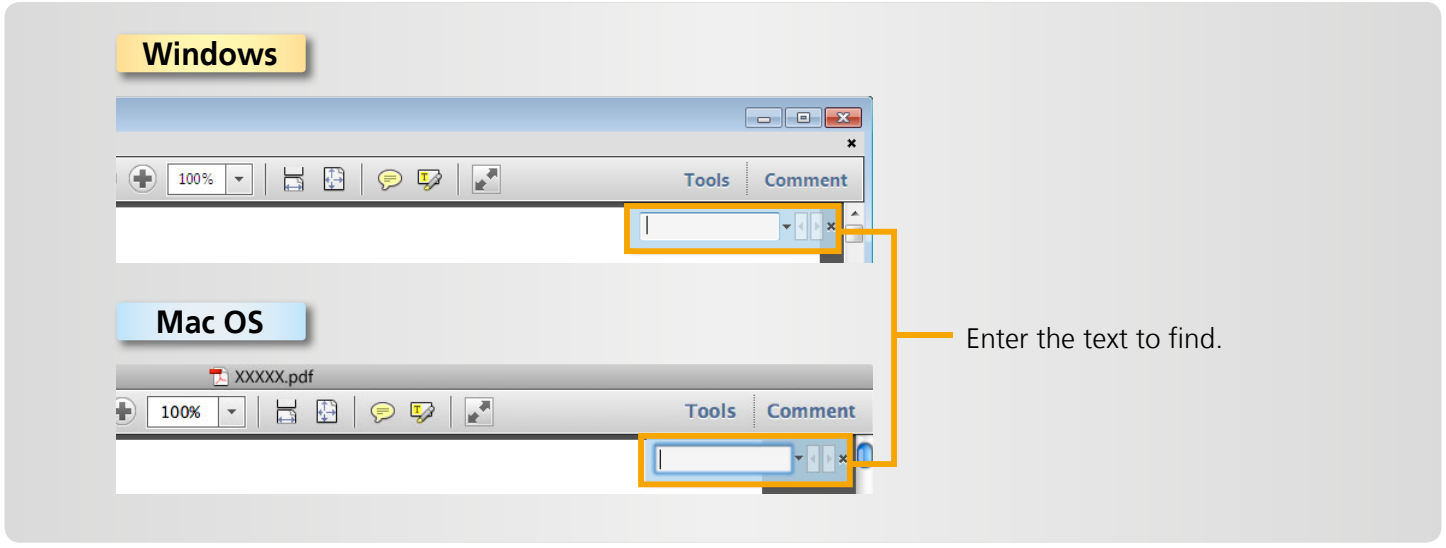
"Print individual images"
"Print rows of images as samples"

Other Operations

"Adjust software/camera operation"

Searching for Terms in This Manual

This manual can be read using Adobe Reader. To find instances of specific terms or expressions, you can use search functions in Adobe Reader.



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Uninstallation

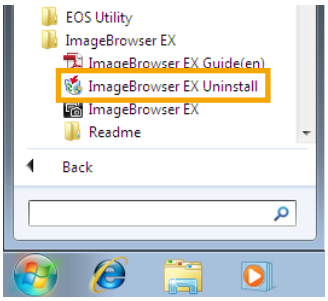
Uninstall the programs when they are no longer needed, or when reinstalling the programs to resolve software issues.

- Uninstallation of ImageBrowser EX is described here as an example. Other programs can be uninstalled the same way.

- **The following task requires administrator rights.**

Mac OS

- **If any folders in the program folder contain imported images, be careful not to drag them to the trash with the program folder.**



Windows

1 **Click the 'Start' menu, select 'All Programs' or 'Programs', and then select 'Canon Utilities' → 'ImageBrowser EX' → 'ImageBrowser EX Uninstall'.**

The uninstallation process now begins, and ImageBrowser EX will be removed from your computer.



Mac OS

1 **Drag the 'ImageBrowser EX' folder (in the 'Applications' folder, in 'Canon Utilities') to the 'Trash'.**

2 **Empty the trash.**

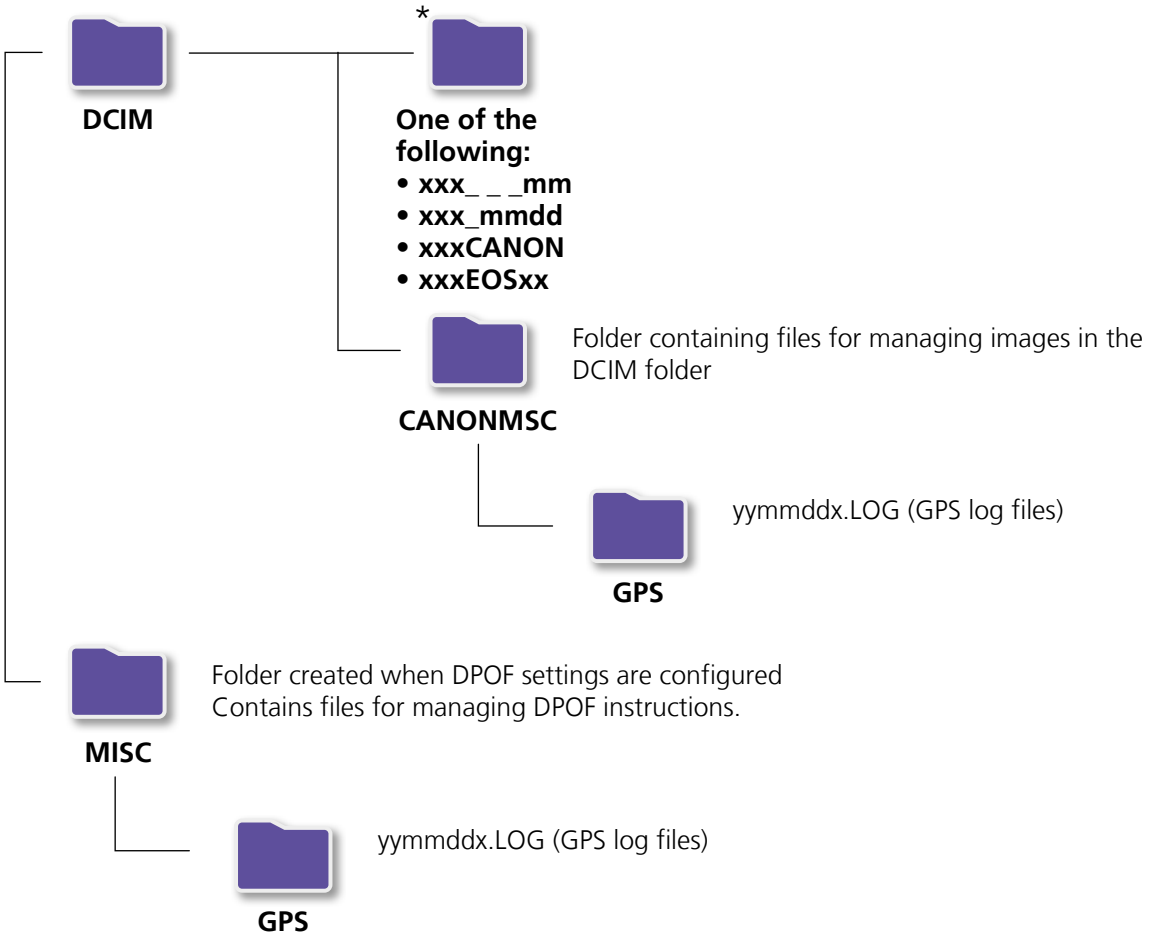
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Memory Card Folder Structure

- Folder Structure
- Folder Contents
- Image Formats

Folder Structure

Folders for files used by the software described in this manual are as follows:



- xxx: numbers in the range 100–999; mm: shooting month; dd: shooting day.
- In GPS log file names (for files in the 'GPS' folder), yy represents the last two digits of the year.
- *All folders other than these contain image management files. Do not open or delete them.
- Some image formats may not be supported by your camera/camcorder, which may not create some of these folders.

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Folder Contents

File Name	Type of File
IMG_xxxx.JPG	Image files in JPEG format
_MG_xxxx.JPG	JPEG image files shot in the Adobe RGB color space
IMG_xxxx.CR2	Image files in RAW format
_MG_xxxx.CR2	RAW image files shot in the Adobe RGB color space
IMG_xxxx.CRW	Image files in RAW format
_MG_xxxx.CRW	RAW image files shot in the Adobe RGB color space
xxxx.TIF	RAW image files shot with EOS-1D or EOS-1Ds cameras
ST□_xxxx.JPG	Image files shot in Stitch Assist mode
MVI_xxxx.MOV	Movie files
MVI_xxxx.AVI	Movie files
MVI_xxxx.MP4	Movie files
MDG_xxxx.MOV	Digest movie files
MDG_xxxx.MP4	Digest movie files

- xxxx represents a four-digit number or letters.
- □ in file names of sets of images shot in Stitch Assist mode represents a letter, starting with A.

Image Formats

ImageBrowser EX supports the following formats of images shot with Canon cameras or camcorders:

Still Images

- JPEG (.JPG)

  Image format used by most cameras and camcorders. Images may appear grainy if edited and saved repeatedly.
- RAW (.CRW/.CR2/.TIF)

  Proprietary image format developed by Canon, designed to preserve digital camera image sensor output, with no loss of image quality. Shooting RAW images is only possible on cameras that support RAW format.
- TIFF (.TIF)

  Widely used image format.

Movies

Files in this format are labeled with a movie icon in the browser area of ImageBrowser EX.

- AVI (.AVI)

  Standard Windows movie format.
- MOV (.MOV)/MP4 (.MP4)

  Widely used movie format.

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Troubleshooting

- Initial Troubleshooting Tips
- Problems and Solutions

Resolve software issues as described in this section.

Initial Troubleshooting Tips

In case of problems, first check the following points:

- Does your computer meet the system requirements?
  Refer to the system requirements in the camera/camcorder user guide.
- Is your camera/camcorder connected to the computer correctly?
  For connection instructions, refer to the camera/camcorder user guide.
  Also confirm that you are using the correct cable, and that it is firmly connected.
- Are your camera/camcorder and the computer ready to send or receive data?
  Some models of camera/camcorder must be in playback mode before data can be sent or received from a computer. For details, refer to the camera/camcorder user guide.
- Is there sufficient battery power?
  When using a battery-powered camera/camcorder, confirm that there is enough charge left.
  When connecting your camera/camcorder to a computer, you can conserve battery power by using an AC adapter kit or a compact power adapter (may be sold separately, depending on your model).

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Problems and Solutions

In case of these problems, try the suggested solutions.

- 'Add New Hardware Wizard' appears when the camera/camcorder is connected to the computer via an interface cable.

  Windows

  Click 'Cancel' to close the wizard, and temporarily disconnect the camera/camcorder from the computer. Try to resolve the problem by referring to "Initial Troubleshooting Tips" on the previous page.

- Tags assigned in ImageBrowser EX (ratings, group names, and so on) no longer appear in image properties.

  Windows **Mac OS**

  Do not use operating system utilities or other software to move, delete, or rename folders registered in ImageBrowser EX (or images in these folders), which may erase ratings, group names, and other image properties assigned in ImageBrowser EX. To avoid this, refer to "Tree View", "Properties Window: Image Details", and "Organizing Images" and use ImageBrowser EX to work with images and folders.

- Camera/camcorder not detected, Events dialog/AutoPlay/Device Stage not displayed, Images not imported (when the camera/camcorder is connected to the computer via an interface cable)

  Windows

  Your camera/camcorder may mistakenly be recognized as another device.

  Uninstall the device as follows:

The following task requires administrator rights.



1 **Access 'Device Manager'.**

Windows 8:

Right-click in the lower-left corner and select 'Device Manager'.

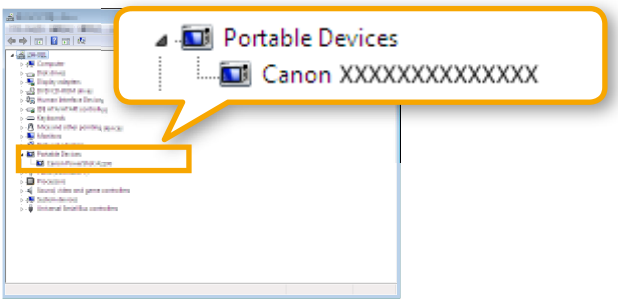
Windows 7:

Click the 'Start' menu and select 'Control Panel' → 'System and Security' → 'System' → 'Device Manager'.

Windows Vista:

Click the 'Start' menu and select 'Control Panel' → 'System and Maintenance' → 'Device Manager'.

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Windows XP:

Click the 'Start' menu and select 'Control Panel' → 'Performance and Maintenance' → 'System'. On the 'Hardware' tab, click 'Device Manager'.

2 **Click '+' next to 'Other devices', 'Portable Devices', or 'Imaging devices'.**

Your model of camera/camcorder or 'Canon Camera' will be listed in these categories if the device is mistakenly recognized as another device.

- Other factors may be causing the problem if 'Other devices', 'Portable Devices', or 'Imaging devices' are not listed, or if your camera/camcorder model name or 'Canon Camera' is not listed. Go to step 5 and consider another solution or try again later.

3 **Right-click on your camera/camcorder model name or 'Canon Camera', and then select 'Uninstall'.**

4 **Click 'OK' after the confirmation message is displayed.**

If applicable, delete all instances of your camera/camcorder model name or 'Canon Camera' listed in 'Other devices', 'Imaging devices', or both categories.

5 **Close 'Device Manager' and 'System Properties'.**

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ImageBrowser EX User Guide

1. Unauthorized reproduction of this manual in whole or part is prohibited.
2. Information in this manual is subject to change without notice.
3. Illustrations or screenshots in this manual may differ slightly from actual products.
4. Notwithstanding the preceding items, Canon cannot be held liable for any loss arising from the use of this software.

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CameraWindow
User Guide

CEL-SV5PA210



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Manual Conventions and Navigation, System Considerations

- Conventions in This Manual
- Manual Navigation
- Supported Operating Environments
- System Requirements

Conventions in This Manual

The following labels are used to distinguish sections in this manual:

Windows Indicates operations in Windows environments.

Mac OS Indicates operations in Mac OS environments.
Windows operations are used in some cases to illustrate instructions in this manual. On Macintosh keyboards, the equivalent of 'Ctrl' is 'command', and the equivalent of 'Enter' is 'return'.
Screenshots in explanations are mainly from Windows. Some screen elements may be different in Mac OS environments.

Indicates operating precautions that should be followed, or important information to note. Be sure to read these sections.

Indicates operating tips and convenient ways to use the software. Read these sections as needed.

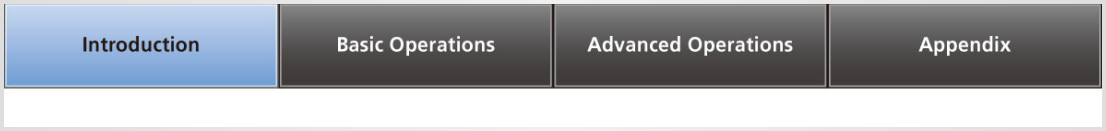
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Manual Navigation

- Click tabs or buttons to access other pages.

Tabs

Click a tab on the top of the page to access the first page in that section.



Buttons

Navigation is also possible by clicking the buttons on the bottom of the page.



1 Jump to the table of contents (69).

2 Return to the page shown before you clicked the link.

3 Jump to the previous page.

4 Jump to the next page.

- Click links to access other pages.
  Click links in the manual shown in blue, such as "XXXXX" or (XX), to access the page mentioned.

Supported Operating Environments

- Windows 7 and Mac OS X 10.8 screenshots and procedures are used to illustrate instructions in this manual. If you are using another version of operating system, the actual screens and procedures may be different.
- Screens and procedures may also vary depending on the model of camera/camcorder, and not all functions may be available, as noted in relevant sections of this manual.
- Use the software when online to take advantage of auto updating. Note that auto updating is not available when offline, which will prevent you from obtaining any new functions that are released.

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System Requirements

Windows

Operating System	Windows 8 / 8.1 Windows 7 SP1
Computer	Computer running one of the above operating systems (preinstalled), with an included USB port; Internet connection required for auto updating
CPU	1.6 GHz or higher
RAM	64-bit: 2 GB or more 32-bit: 1 GB or more
Interface	USB and Wi-Fi*1
Free Hard Disk Space	150 MB or more
Display	1,024 x 768 resolution or higher

*1 Wi-Fi connections require supported cameras.

Mac OS

Operating System	OS X 10.9*1, 10.8*1*2
Computer	Computer running one of the above operating systems (preinstalled), with an included USB port; Internet connection required for auto updating
CPU	Core 2 Duo or higher
RAM	2 GB or more
Interface	USB and Wi-Fi*3
Free Hard Disk Space	150 MB or more
Display	1,024 x 768 resolution or higher

*1 Information on computer models compatible with OS X 10.9 and 10.8 is available on the Apple website.
*2 OS X 10.8.2 or later required for Wi-Fi connections (with supported cameras only)
*3 Wi-Fi connections require supported cameras.

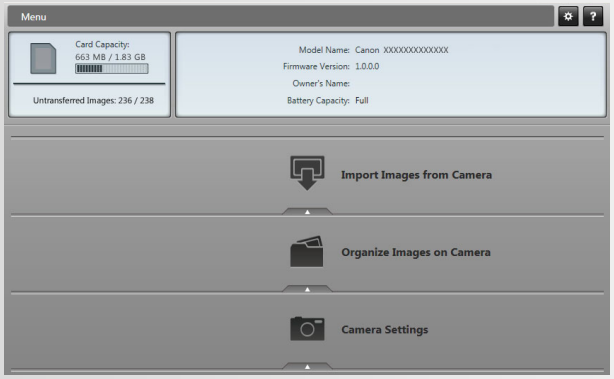
For the latest compatibility information, including supported OS versions, visit the Canon website.

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Software Described in This Instruction Manual

CameraWindow interacts with a connected camera (other than EOS cameras)/camcorder to enable the following tasks.

- EOS camera users: Use EOS Utility for these operations. Also refer to the *EOS Utility Instruction Manual* (provided in PDF format).



Available tasks include:

- Import images from the camera/camcorder
- Organize images on the camera/camcorder

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Importing Images

- Camera/Camcorder–Computer Connection Precautions
- Importing Images with CameraWindow

Camera/Camcorder–Computer Connection Precautions

- When connecting the camera/camcorder to a computer via an interface cable, connect the interface cable directly to the USB port. Connection via a USB hub may prevent correct operation.
- Using other USB devices (except USB mouse devices or keyboards) when the camera/camcorder is connected may prevent correct operation. In this case, disconnect the other devices from the computer and reconnect the camera/camcorder.
- Do not connect multiple cameras or camcorders to a single computer. This may prevent correct camera/camcorder operation.
- Do not allow the computer to enter sleep (or standby) mode while a camera/camcorder is connected via an interface cable. If this does happen, leave the interface cable connected to the computer and try to wake the computer while the camera is still connected. Some computers may not recover from sleep correctly if the interface cable is disconnected while they are in sleep mode. For details on sleep or standby mode, refer to the computer user manual.
- Do not disconnect your camera/camcorder from the computer while the CameraWindow screen is displayed.
- These tasks are not supported when connected via Wi-Fi to a Mac OS computer: Editing the camera owner name, transferring identifying information, and setting up linkage with CANON iMAGE GATEWAY.
  - For details on Wi-Fi, refer to sections on Wi-Fi in the camera user guide. (Cameras supporting Wi-Fi only.)

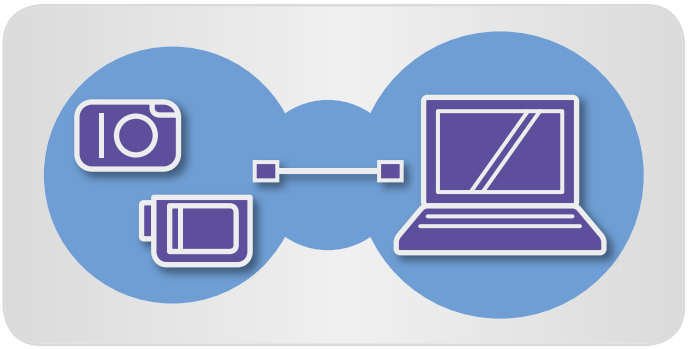
- **When connecting a battery-powered camera/camcorder to the computer, make sure the device is fully charged, or use an AC adapter kit or a compact power adapter (may be sold separately, depending on your model).**
- **When connecting an AA battery-powered camera/camcorder to the computer, use batteries with sufficient charge, optional fully charged AA NiMH batteries, or an optional compact power adapter.**
- **For connection instructions, refer to the camera/camcorder user guide.**

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Importing Images with CameraWindow

Connect your camera/camcorder to the computer and import images as follows:

- Instructions in this *CameraWindow User Guide* apply when the program has been installed correctly. For installation instructions, refer to the camera/camcorder user guide.



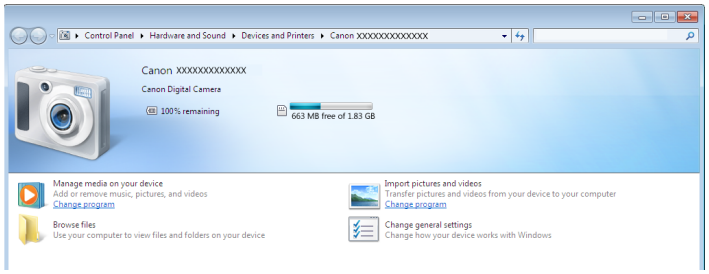
1 Connect your camera/camcorder to the computer via the included interface cable.

2 Start CameraWindow.

→ Turn the camera/camcorder on and prepare it for communication with the computer.

- After the first time you connect the camera/camcorder to the computer via the included interface cable, CameraWindow will start up automatically.

Camera



Windows Follow these steps.

1. In the taskbar, click .
2. When the screen on the left is displayed, click 'Change program' next to .
3. Select 'Downloads Images From Canon Camera using Canon CameraWindow', and then click 'OK'.
4. Double-click .

- On the screen on the left, double-click 'Change general settings'. You can now adjust the settings so that whenever the camera/camcorder and computer are ready for communication, CameraWindow will start up automatically.

Windows 8

Select the screen for choosing what to do with the device, and then choose 'Downloads Images From Canon Camera using Canon CameraWindow'.

Windows Vista

On the screen displayed, select 'Downloads Images From Canon Camera using Canon CameraWindow'.

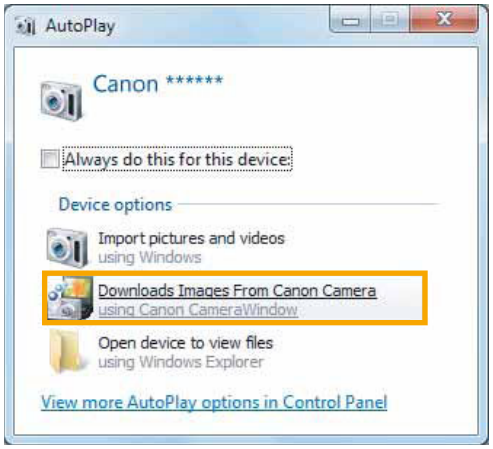
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Windows XP

On the screen displayed, select 'Canon CameraWindow', and then click 'OK'.

Mac OS Whenever the camera and computer are ready for communication, CameraWindow will start up.

Camcorder



Windows Select 'Canon CameraWindow' and click 'OK'.

Windows 8

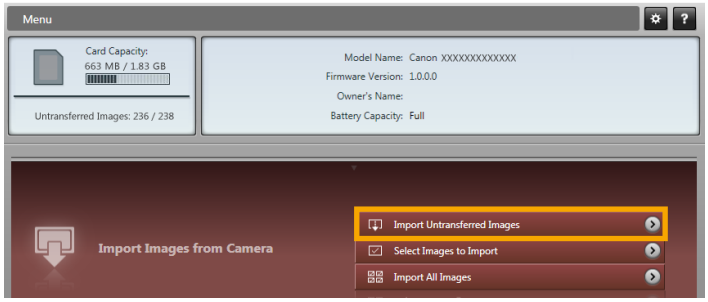
Select the screen for choosing what to do with the device, and then choose 'Downloads Images From Canon Camera using Canon CameraWindow'.

Windows XP/Windows Vista

When the 'AutoPlay' window appears, click 'Downloads Images From Canon Camera using Canon CameraWindow'.

- If a camcorder and memory card reader are connected at the same time, a dialog appears allowing you to select the camcorder model. Confirm that 'Canon Camera' or your camcorder model name is displayed and click 'OK'.

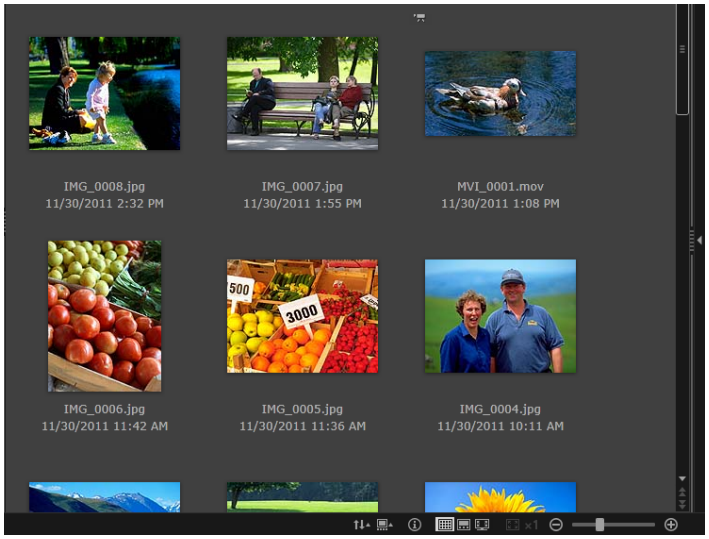
Mac OS Whenever the camcorder and computer are ready for communication, CameraWindow will start up.



3 Click [Import Images from Camera], and then click [Import Untransferred Images].

- Only images that you have not transferred to the computer will be imported.
- If you have used the GPS logger function, log files will also be imported.

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4 Click [OK] on the screen displayed after importing, and then close CameraWindow.

Imported images are now shown in the main ImageBrowser EX window.

- On initial ImageBrowser EX startup, a screen is displayed for specifying where to save imported images. Follow the instructions displayed to choose the destination folder.
  - For details on ImageBrowser EX preferences, refer to the *ImageBrowser EX User Guide* (provided in PDF format).
- Importing problems may occur if there are too many images (more than 1,000) on the memory card. In this case, use a memory card reader to import the images. For instructions on importing images from a memory card reader, see "Importing Images from Memory Cards".
- Movies take longer to import, due to the larger file size.
- On camcorders, files that exceed 4 GB or movies that are longer than 1 hour are split and recorded as multiple files. When these files are detected and you close CameraWindow, a message is displayed. You can click [Yes] to join the files.

5 Turn the camera/camcorder off.

Windows

- **Importing movies using built-in Windows 7 import functions may prevent them from being shown in ImageBrowser EX. Instead, use CameraWindow for importing.**
- **CameraWindow may not start up in some versions of Windows, even when you connect your camera/camcorder. In this case, click the 'Start' menu and select 'All Programs' → 'Canon Utilities' → 'CameraWindow' → 'CameraWindow'.**

Mac OS

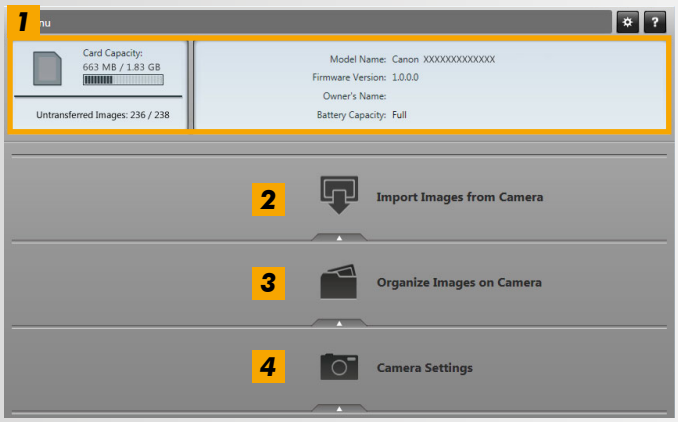
- **If CameraWindow does not start up even when you connect your camera, click the 'CameraWindow' Dock icon.**

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Screen Elements

- Menu Screen
- Main Window

Menu Screen



1 Camera/Camcorder Details
Identifies the camera/camcorder model and shows the remaining memory capacity.

2 [Import Images from Camera]
Start the process of importing camera/camcorder images to the computer.

3 [Organize Images on Camera]
Start the process of protecting, rotating, or deleting camera/camcorder images.

4 [Camera Settings]
Used for configuring camera/camcorder settings. Configurable settings include:
- Registering Face ID Information (31)
- Configuring Sharing Websites

- The buttons shown vary depending on camera/camcorder model.

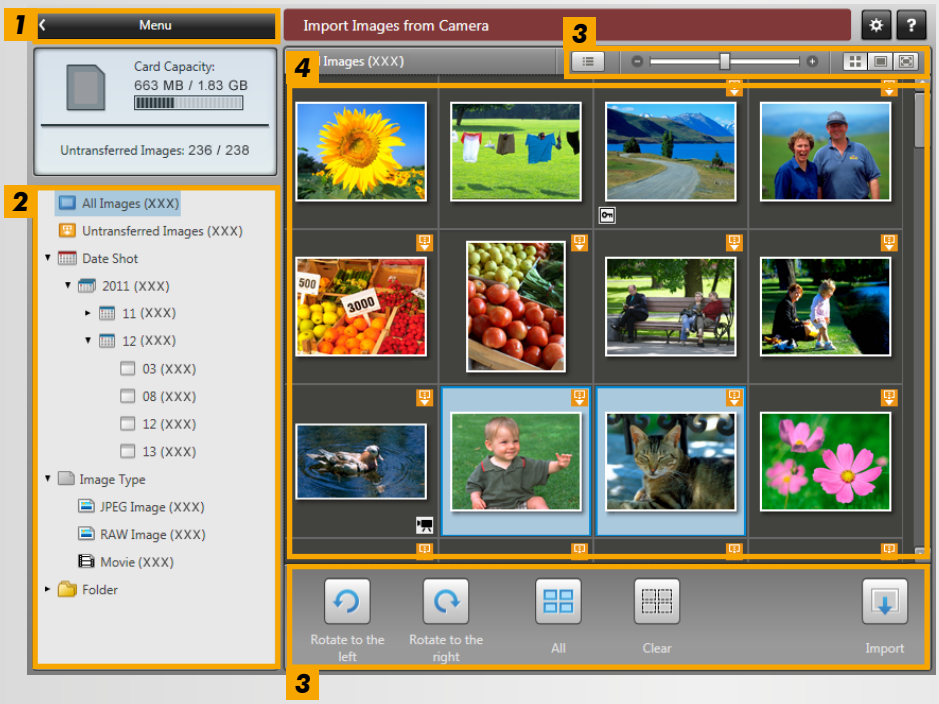
Customizing CameraWindow Operation

Access program preferences by clicking the button in the upper right of the screen. On this screen, you can change the startup screen, automatic importing settings, the destination folder for saving images, and other settings to make CameraWindow easier to use.

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Main Window

To access this screen, click [Import Images from Camera] on the menu screen, and then click [Select Images to Import]. Otherwise, click [Organize Images on Camera] on the menu screen, followed by [Organize Images].



1 Return to the menu screen.

2 **Tree View**
Images on the camera/ camcorder that match the conditions you select here are shown on the right.

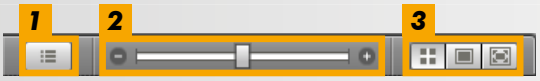
3 **Browser Control Bar**
Settings governing display in the browser area.
Display varies depending on the selected menu screen items.

4 **Browser Area**
Images not imported yet are labeled with an icon. Show selected images against a blue background.

- The buttons shown vary depending on camera/camcorder model.

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Browser Control Bar



1 Show/hide the shooting date/time and file name below images (in thumbnail display mode).

2 Change thumbnail size (in thumbnail display mode).

3 Switch display modes.

Thumbnail Mode
View thumbnails of multiple images.

Preview Mode
Double-clicking an image will also switch to preview display.

Full-screen



1 Rotate selected images 90° left or right.

2 Select all images.

3 Clear image selection.

4 Import selected images to the computer.

- Different options are shown when you are organizing images on a camera (78).

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Image Importing Options

- Importing Selected Images
- Importing All Images

Importing Selected Images

Import desired camera/camcorder images as follows:



To access the screen for choosing images to import, click [Import Images from Camera] on the menu screen, and then click [Select Images to Import]. Select images to import and click [Import] to start importing the images to your computer.

Importing All Images

Import all camera/camcorder images as follows:



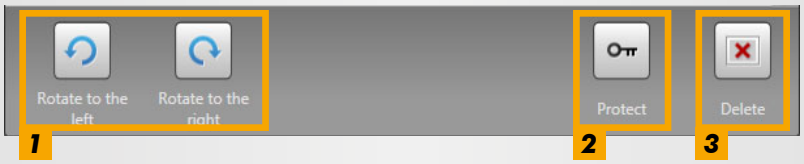
On the menu screen, click [Import Images from Camera], and then click [Import All Images].

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Organizing Camera Images

To access the screen for organizing images on cameras/camcorders, click [Organize Images on Camera] on the CameraWindow menu screen, and then click [Organize Images]. You can view images in a folder in thumbnail mode by selecting the desired folder in the tree view area. The thumbnails are shown in the browser area.

Browser Control Bar



1 Rotate selected images 90° left or right.

2 Protect selected images, or cancel protection.

3 Delete selected images.

Clicking [Delete] will delete the selected images from your camera/camcorder. Be careful when deleting images, because deleted images cannot be restored.

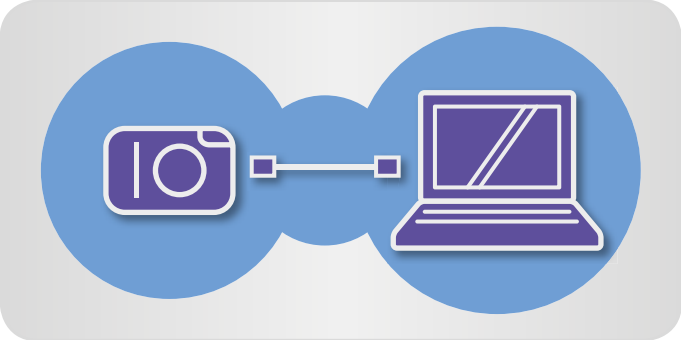
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Transferring Identifying Information (Face ID-Compatible Cameras Only)

Identifying information you enter in ImageBrowser EX can be used by cameras that support Face ID to identify people you shoot.

A screen is displayed for you to configure automatic syncing of identifying information if you connect a camera when either the camera or your computer has identifying information. If you prefer not to see the sync screen each time CameraWindow starts up, clear the option [Synchronize automatically].

Keeping Identifying Information on Cameras Optimized

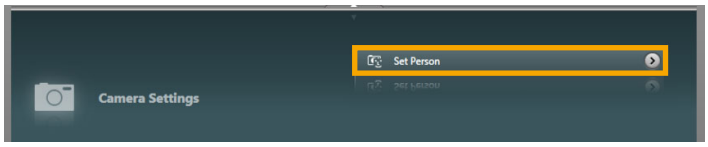


1 Connect your camera to the computer to access CameraWindow.

- For details, see steps 1–2 in "Importing Images with CameraWindow".

2 Click [Yes] when a message is displayed about syncing identifying information on the camera.

Manually Editing Identifying Information on Cameras



1 On the menu screen, click [Camera Settings], and then click [Set Person].



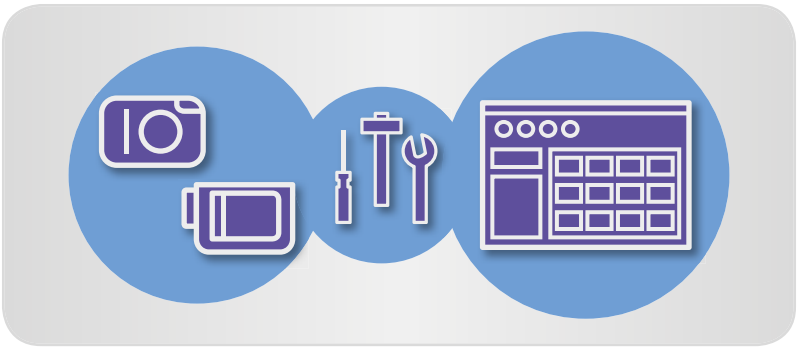
2 Clear [Synchronize automatically].

You can now select and edit personal information manually.

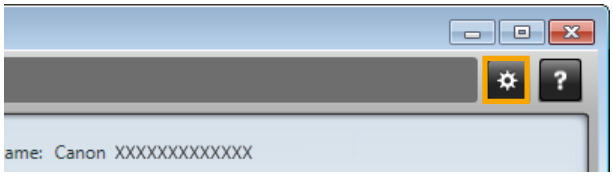
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Preference Settings

Configuring Preference Settings



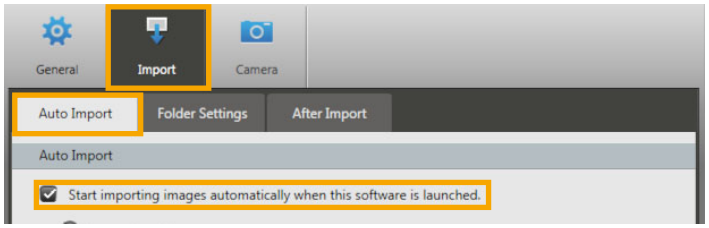
Configuring Preference Settings



Click the ⚙ in the upper right of the menu screen.

Automatically Importing Images on CameraWindow Startup

Set up CameraWindow to import images automatically on program startup as follows:

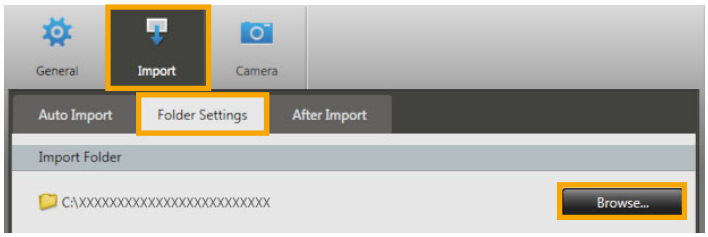


1. **On the preferences screen, click the [Import] tab.**
2. **On the [Auto Import] tab, choose [Start importing images automatically when this software is launched.].**

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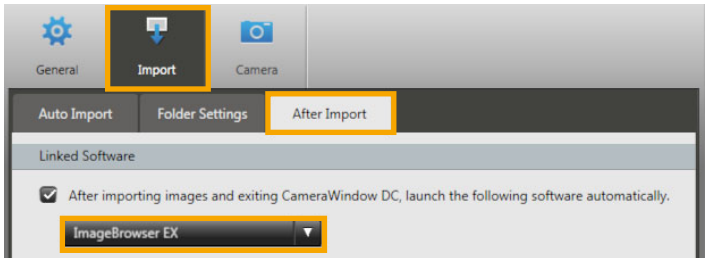
Changing the Destination Folder

- By default, images imported using CameraWindow are saved in either the 'Pictures' or 'My Pictures' folder.



1. **On the preferences screen, click the [Import] tab.**
2. **On the [Folder Settings] tab, click [Browse], and then specify the destination on the next screen.**

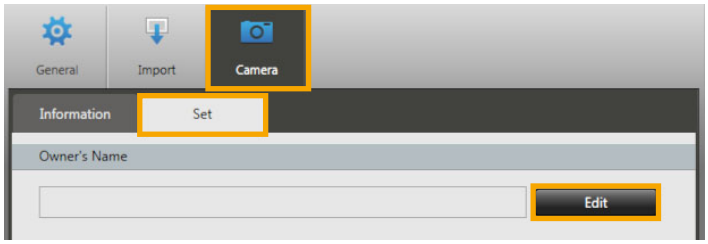
Changing the Program Launched after Import



1. **On the preferences screen, click the [Import] tab.**
2. **On the [After Import] tab, click ▼ and choose the program to start after image importing.**

Editing the Camera Owner Name

Edit the owner name for the connected camera as follows:



1. **On the preferences screen, click the [Camera] tab.**
2. **On the [Set] tab, click [Edit] and enter the new name in the box.**
3. **Click [Set].**

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Importing Images

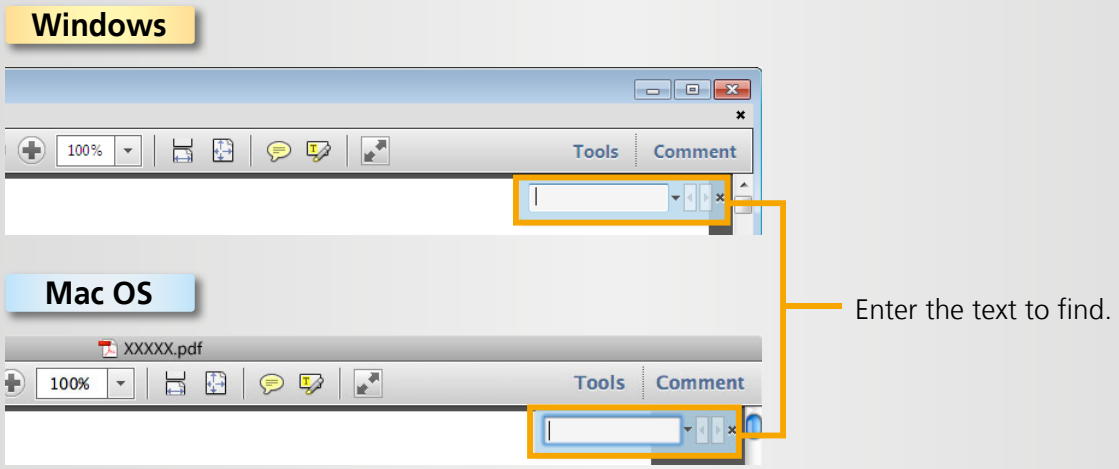
"Import images from cameras/camcorders"
"Import selected images"

Other Operations

"Adjust software/camera operation"

Searching for Terms in This Manual

This manual can be read using Adobe Reader. To find instances of specific terms or expressions, you can use search functions in Adobe Reader.



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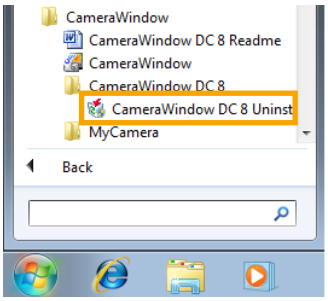
Uninstallation

Uninstall the programs when they are no longer needed, or when reinstalling the programs to resolve software issues.

- **The following task requires administrator rights.**

Mac OS

- **If any folders in the program folder contain imported images, be careful not to drag them to the trash with the program folder.**



Windows

1 **Click the 'Start' menu, select 'All Programs' or 'Programs', and then select 'Canon Utilities' → 'CameraWindow DC 8' → 'CameraWindow DC 8 Uninstall'.**

The uninstallation process now begins, and CameraWindow will be removed from your computer.



Mac OS

1 **Drag the 'CameraWindow' folder (in the 'Applications' folder, in 'Canon Utilities') to the 'Trash'.**

2 **Empty the trash.**

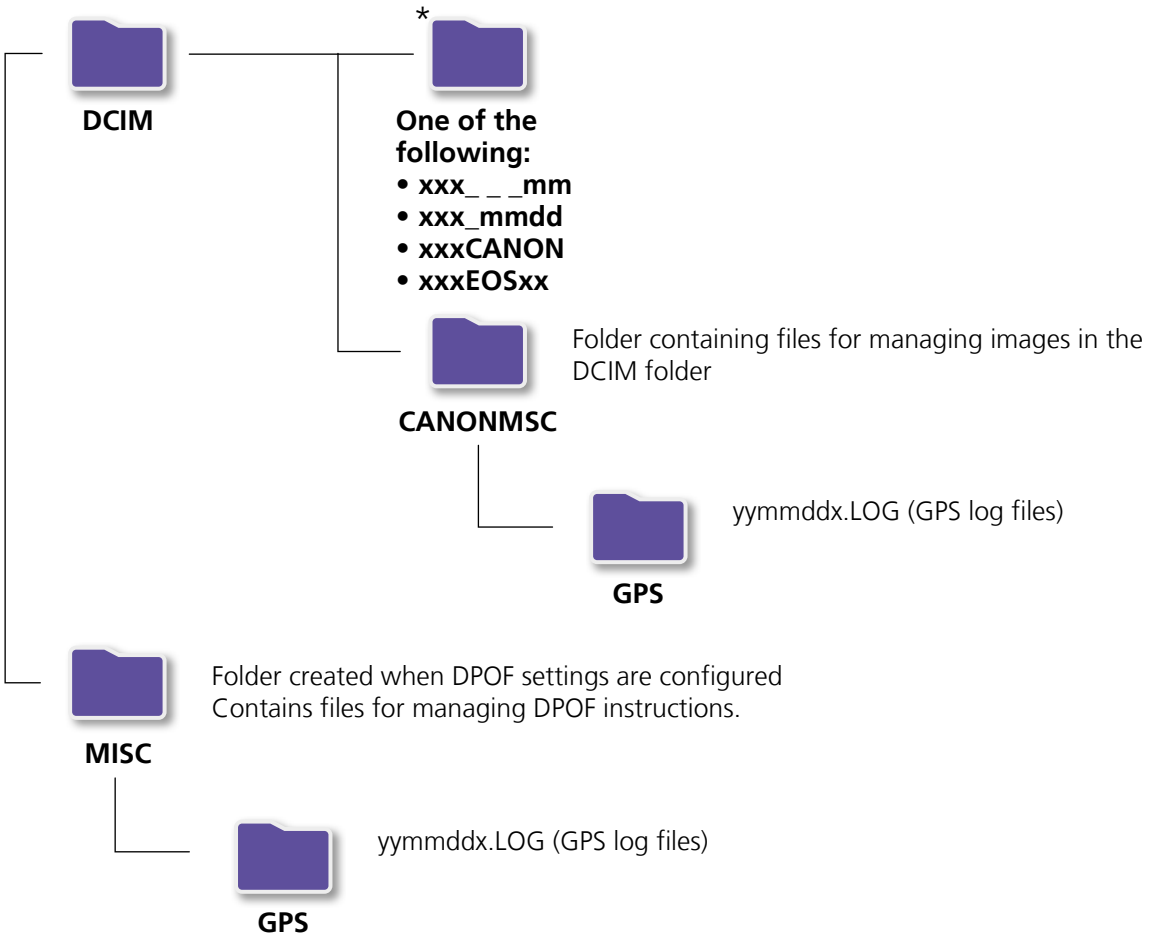
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Memory Card Folder Structure

- Folder Structure
- Folder Contents

Folder Structure

Folders for files used by the software described in this manual are as follows:



- xxx: numbers in the range 100–999; mm: shooting month; dd: shooting day.
- In GPS log file names (for files in the 'GPS' folder), yy represents the last two digits of the year.
- *All folders other than these contain image management files. Do not open or delete them.
- Some image formats may not be supported by your camera/camcorder, which may not create some of these folders.

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Folder Contents

File Name	Type of File
IMG_xxxx.JPG	Image files in JPEG format
_MG_xxxx.JPG	JPEG image files shot in the Adobe RGB color space
IMG_xxxx.CR2	Image files in RAW format
_MG_xxxx.CR2	RAW image files shot in the Adobe RGB color space
IMG_xxxx.CRW	Image files in RAW format
_MG_xxxx.CRW	RAW image files shot in the Adobe RGB color space
xxxx.TIF	RAW image files shot with EOS-1D or EOS-1Ds cameras
ST□_xxxx.JPG	Image files shot in Stitch Assist mode
MVI_xxxx.MOV	Movie files
MVI_xxxx.AVI	Movie files
MVI_xxxx.MP4	Movie files
MDG_xxxx.MOV	Digest movie files
MDG_xxxx.MP4	Digest movie files

- xxxx represents a four-digit number or letters.
- □ in file names of sets of images shot in Stitch Assist mode represents a letter, starting with A.

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Troubleshooting

- Initial Troubleshooting Tips
- Problems and Solutions

Resolve software issues as described in this section.

Initial Troubleshooting Tips

In case of problems, first check the following points:

- Does your computer meet the system requirements?
  Refer to the system requirements in the camera/camcorder user guide.
- Is your camera/camcorder connected to the computer correctly?
  For connection instructions, refer to the camera/camcorder user guide.
  Also confirm that you are using the correct cable, and that it is firmly connected.
- Are your camera/camcorder and the computer ready to send or receive data?
  Some models of camera/camcorder must be in playback mode before data can be sent or received from a computer. For details, refer to the camera/camcorder user guide.
- Is there sufficient battery power?
  When using a battery-powered camera/camcorder, confirm that there is enough charge left.
  When connecting your camera/camcorder to a computer, you can conserve battery power by using an AC adapter kit or a compact power adapter (may be sold separately, depending on your model).

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Problems and Solutions

In case of these problems, try the suggested solutions.

- Cannot find imported images.

  Windows **Mac OS**

  See "Changing the Destination Folder" and check where images are being saved.

- 'Add New Hardware Wizard' appears when the camera/camcorder is connected to the computer via an interface cable.

  Windows

  Click 'Cancel' to close the wizard, and temporarily disconnect the camera/camcorder from the computer. Try to resolve the problem by referring to "Initial Troubleshooting Tips" on the previous page.

- Camera/camcorder not detected, Events dialog/AutoPlay/Device Stage not displayed, Images not imported (when the camera/camcorder is connected to the computer via an interface cable)

  Windows

  Your camera/camcorder may mistakenly be recognized as another device.
  Uninstall the device as follows:

The following task requires administrator rights.



1 **Access 'Device Manager'.**

Windows 8:

Right-click in the lower-left corner and select 'Device Manager'.

Windows 7:

Click the 'Start' menu and select 'Control Panel' → 'System and Security' → 'System' → 'Device Manager'.

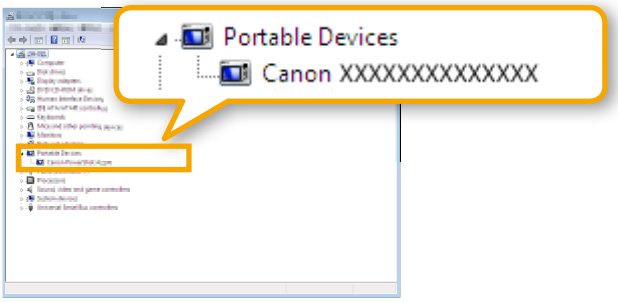
Windows Vista:

Click the 'Start' menu and select 'Control Panel' → 'System and Maintenance' → 'Device Manager'.

Windows XP:

Click the 'Start' menu and select 'Control Panel' → 'Performance and Maintenance' → 'System'. On the 'Hardware' tab, click 'Device Manager'.

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2 **Click '+' next to 'Other devices', 'Portable Devices', or 'Imaging devices'.**

Your model of camera/camcorder or 'Canon Camera' will be listed in these categories if the device is mistakenly recognized as another device.

- Other factors may be causing the problem if 'Other devices', 'Portable Devices', or 'Imaging devices' are not listed, or if your camera/camcorder model name or 'Canon Camera' is not listed. Go to step 5 and consider another solution or try again later.

3 **Right-click on your camera/camcorder model name or 'Canon Camera', and then select 'Uninstall'.**

4 **Click 'OK' after the confirmation message is displayed.**

If applicable, delete all instances of your camera/camcorder model name or 'Canon Camera' listed in 'Other devices', 'Imaging devices', or both categories.

5 **Close 'Device Manager' and 'System Properties'.**

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CameraWindow User Guide

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